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And Announcement

1925-1926

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1924

JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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1925

JANUARY

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MARCH

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UNIVERSITY CALENDAR

1925

Entrance examinations, etc.....Monday-Tuesday, Sept. 21-22
Registration for fall term.....Wednesday-Saturday, Sept. 23-26
Fall term classes begin, 8:00 a. m.....Monday, Sept. 28
Thanksgiving holidayThursday, Nov. 26
Registration for winter term.....Monday-Friday, Dec. 14-18
Fall term ends, 5:00 p. m.....Saturday, Dec. 19

1926

Winter term begins, 8:00 a. m.....Monday, Jan. 4
Registration for spring term.....Monday-Friday, March 15-19
Winter term ends, 5:00 p. m.....Thursday, March 25
Spring term begins, 8:00 a. m.....Tuesday, March 30
Spring term ends, 5:00 p. m.....Saturday, June 12
Baccalaureate sermonSunday, June 13
Commencement dayMonday, June 14
Registration for summer term, Wednesday-Saturday, June 16-19
Summer term classes begin, 8:00 a. m.....Monday, June 21
Summer term ends, 5:00 p. m.....Saturday, July 31

BOARD OF TRUSTEES

The Governor of Arkansas.....Ex-Officio

TOM J. TERRAL, Little Rock.

The State Superintendent of Public Instruction.....Ex-Officio

A. B. HILL, Little Rock.

Expiration of Term

HUGH A. DINSMORE, Fayetteville.....1927

JAMES K. BROWNING, Piggott.....1927

A. B. BANKS, Fordyce.....1929

E. J. BODMAN, Little Rock.....1929

J. O. KINCANNON, Booneville.....1931

W. L. POPE, Pocahontas.....1931

J. R. WILSON, ElDorado.....1931

OFFICERS

Chairman.....GOVERNOR TOM J. TERRAL

Secretary and Auditor.....WILLIAM H. CRAVENS, Fayetteville

COMMITTEES

Note.—The name of the chairman stands first.

Agricultural Extension—Messrs. Banks, Bodman and Pope.

Board of Control of the Agricultural Experiment Station—The Committee on the College of Agriculture, the President of the University, and the Director of the Experiment Station.

State Agricultural, Mechanical and Normal School—Messrs. Hill, Banks, and Wilson.

Buildings and Grounds—Messrs. Dinsmore, Pope, and Browning.

College of Agriculture—Messrs. Browning, Kincannon, and Bodman.

Executive—Governor Terral, Messrs. Dinsmore, Wilson and Pope.

Finance—Messrs. Banks, Kincannon, and Wilson.

Medical College—Messrs. Bodman, Hill, and Kincannon.

Teachers—Messrs. Hill, Banks, and Dinsmore.

GOVERNMENT

The government of the University is vested primarily in a Board of Trustees, consisting of the Governor of the State and the State Superintendent of Public Instruction, as ex-officio members, and seven other members, appointed by the Governor for a term of six years.

The administration of the University is vested in the President, the University Council, the University Senate, and the faculties and deans of the various colleges.

The President is the administrative head of the University. The University Council is composed of the President, the deans of the several colleges, and four other members, appointed by the President. The Council is the central executive body of the University and is advisory to the President.

The University Senate is composed of the President, the deans, and all heads of departments and full professors. The Senate is the general legislative body of the University.

The faculty of each college within the University has jurisdiction, subject to higher University authority, over all matters that concern exclusively that college.

The dean of each college is responsible for the carrying out of all University regulations within his college. The Dean of Women acts as an adviser to women undergraduate students and is charged with the general care and conduct of these students. The Dean of Men is adviser for all men students and looks after the general college life of these students.

A system of student government under faculty guidance known as "The Associated Students of the University of Arkansas" is now in successful operation. Through student-elected officers, a Student Senate, an Advisory Council, and other boards, a close form of control by the students themselves is effective over all student activities.

OFFICERS OF ADMINISTRATION

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

- JOHN CLINTON FUTRALL, B. A., M. A. (University of Virginia), LL. D. (Tulane University). *President*, 1913, 1894.
- WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Vice-President, Dean of the College of Engineering, and Director of the Engineering Experiment Station*, 1923, 1894.
- GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL. D. (Hendrix College). *Dean of the College of Arts and Sciences*, 1915, 1880.
- JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Dean of the College of Education*, 1913.
- DANIEL THOMAS GRAY, B. S., B. A. (University of Missouri), M. S. (University of Illinois). *Dean of the College of Agriculture and Director of the Agricultural Experiment Station*, January 1, 1924.
- MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Vice-Dean of the College of Agriculture and Vice-Director of the Agricultural Experiment Station*, 1920, 1908.
- GILES EMMETT RIPLEY, B. A., M. S. (Purdue University). *Dean of Men*, 1923, 1908.
- MARTHA MCKENZIE REID, A. M. (University of Missouri). *Dean of Women*, 1923.
- ARTHUR MCCracken HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Director, General Extension Service*, 1919, 1905.
- T. ROY REID, B. S. (Clemson Agricultural College). *Assistant Director, Agricultural Extension Service*, 1923.
- FREDRICK LAIRD KERR, B. A., M. A. (Northwestern University). *Executive Secretary to the President and Registrar*, 1924.
- JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Examiner*, 1919, 1918.
- WILLIAM HAMPTON CRAVENS, *Treasurer, and Secretary of the Board of Trustees*, 1911.
- THORNGY CEDRIC CARLSON, B. A. (University of Minnesota). *Business Manager*, 1923, 1915.
- ALLAN ARTHUR GILBERT, M. D. (Washington University). *University Physician*, 1923.
- J. WYMOND FRENCH, A. B., M. A. (Indiana University). *Director of News Bureau*, 1924.
- JULIA RAMSEY VAULX, B. A. (University of Arkansas), M. A. (Cornell University). *Librarian*, 1914.
- BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL. D. (Ouachita College). *Assistant Librarian*, 1917, 1894.

- JIM P. MATTHEWS, B. A. (University of Arkansas). *Reference Librarian*, 1917.
- INA HELEN KNERR, B. A. (University of Iowa). *Catalog Librarian*, 1924.
- MARGARET GALLOWAY, *Librarian, College of Agriculture and Experiment Station*, 1916.
- HELEN HUDGINS, B. A. (University of Arkansas). *Library Assistant*, 1922.
- FRANCIS ALBERT SCHMIDT, LL. B. (University of Nebraska). *Director of Athletics*, 1922.
- WILLIAM JASPER MILLER, E. E. (University of Texas), S. M. E. E. (Massachusetts Institute of Technology). *Research Engineer*, 1923.
- GUY BRADEN IRBY, B. M. E. (University of Arkansas). *Coordinator, Veterans' Bureau*, 1922, 1920.
- BERTHA HANSEN, B. S. (University of Chicago). *Manager and Dietitian, University Dining Halls*, 1923.
- LILLIAN BLACKBURN, R. N. *Resident University Nurse*, 1923.
- JOHN HARLEY ANDREWS, B. S. (University of Illinois). *Chief Accountant*, 1923.
- HELEN CLAIRE BATTRICK, B. A. (Ohio University). *Y. W. C. A. Secretary*, 1922.
- WILLIAM SEDGEWELL GREGSON, *Y. M. C. A. Secretary*, 1919.
- LOUIS P. CALDWELL, *Superintendent of Buildings and Grounds*, 1923.
- MRS. J. E. CAMPBELL, *Matron, Carnall Hall*, 1907.
- MRS. W. A. ELLIS, *Matron, Men's Dormitories*, 1923.

FACULTY

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

*Leave of absence.

†Member of Agricultural Experiment Station Staff.

‡Member of Engineering Experiment Station Staff.

PROFESSORS, ASSOCIATE AND ASSISTANT PROFESSORS

- †WILLIAM J. BAERG, B. A. (University of Kansas), Ph. D. (Cornell University). *Professor of Entomology*, 1920, 1918.
- CLEMENT L. BENSON, B. A. (Union University), M. A. (University of Nebraska). *Assistant Professor of History*, January 1, 1925.
- †WILLIAM LESLIE BLEECKER, D. V. M. (Ohio State University). *Professor of Bacteriology and Pathology*, 1919, 1918.
- JOHN THEODORE BUCHHOLZ, B. S. (Iowa Wesleyan College), B. A. (University of Iowa), M. S., Ph. D. (University of Chicago). *Professor of Botany*, 1919.

- JOE HENRY BUX, D. V. S. (Kansas City Veterinary College). *Professor of Veterinary Science*, 1920.
- GEORGE NEWTON CADE, B. S., M. A. (University of Chicago). *Professor of Educational Training*, 1921.
- GILBERT HAVEN CADY, B. A., M. A. (Northwestern University), Ph. D. (University of Chicago). *Professor of Geology*, 1920.
- ALAN DITCHFIELD CAMPBELL, B. A. (Rutgers College), M. A. (Princeton University), Ph. D. (Cornell University). *Assistant Professor of Mathematics*, 1923.
- DEANE G. CARTER, B. S. in A. E. (Iowa State College). *Professor of Agricultural Engineering*, 1922.
- †CLAUD FRANKLIN CLAYTON, A. B., M. A. (University of Missouri). *Associate Professor of Economics and Sociology*, 1924.
- †JOHN RALPH COOPER, B. S. (Kansas State Agricultural College), M. S. (University of Nebraska). *Professor of Horticulture*, 1918.
- ‡PAUL ALLERTON CUSHMAN, S. B. (Massachusetts Institute of Technology). *Professor of Mechanical Engineering*, 1924.
- *SAMUEL CLAUDIUS DELLINGER, B. A. (Trinity College), M. A. (Columbia University). *Acting Professor of Zoology*, 1922, 1921.
- JAMES ALLEN DICKEY, B. A. (Elon College), M. A. (University of North Carolina). *Associate Professor of Economics and Sociology*, 1925.
- MACEY LILLARD DILL, Captain U. S. Army. *Associate Professor of Military Art*, 1921.
- GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL. D. (Hendrix College). *Professor of Mathematics and Astronomy*, 1897, 1880.
- BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL. D. (Ouachita College). *Emeritus Associate Professor of Mathematics*, 1917, 1894.
- JOHN LAWRENCE DUNN, Captain, U. S. Army. *Associate Professor of Military Art*, 1924.
- †HENRY EDMUND DVORACHEK, B. S. A. (University of Minnesota). *Professor of Animal Husbandry*, 1915.
- GEORGE CUTLER FRACKER, Ph. B., M. A., Ph. D. (University of Iowa). *Professor of Psychology and Philosophy*, 1924.
- J. WYMOND FRENCH, A. B., M. A. (Indiana University). *Assistant Professor of Journalism*.
- ‡WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Professor of Electrical Engineering*, 1895, 1894.
- ‡HARRISON HALE, B. A. (Emory College), M. S. (University of Chicago), Ph. D. (University of Pennsylvania). *Professor of Chemistry*, 1918.

- ARTHUR MCCrackEN HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Professor of Mathematics and Astronomy*, 1916, 1905.
- GEORGE EVERETT HASTINGS, B. A. (Princeton University), M. A. (Princeton University and Harvard University), Ph. D. (Harvard University). *Associate Professor of English*, 1921, 1919.
- JOELLE HOLCOMBE, B. A. (University of Arkansas), M. A. (Cornell University). *Assistant Professor of English*, 1918, 1907.
- KEITH LEAMING HOLLOWAY, B. S. A., M. S. (University of Arkansas). *Assistant Professor of Agricultural Education*, 1924.
- *HENRY GUSTAVE HOTZ, Ph. B., M. A. (University of Wisconsin), Ph. D. (Columbia University). *Professor of Secondary Education*, 1919.
- JEWELL CONSTANCE HUGHES, B. A. (University of Arkansas), M. A. (University of Missouri), Ph. D. (University of Chicago). *Assistant Professor of Mathematics and Astronomy*, 1924, 1918.
- ALLAN SPARROW HUMPHREYS, B. S. (Drury College), M. S. (University of Pennsylvania). *Assistant Professor of Chemistry*, 1921, 1918.
- DWIGHT ISLEY, B. A. (Fairmount College), M. A. (University of Kansas). *Associate Professor of Entomology*, 1921.
- ALBERT WOODWARD JAMISON, B. S., M. S. (Princeton University), Ph. D. (University of Wisconsin). *Professor of Economics and Sociology*, 1924, 1922.
- JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Professor of Education*, 1913.
- VIRGIL LAURENS JONES, B. A. (University of North Carolina), Ph. D. (Harvard University). *Professor of English*, 1915, 1911.
- JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Professor of English and Public Speaking*, 1918.
- JAMES KESSLER, B. A. (Indiana University), M. A. (University of Illinois). *Associate Professor of Romance Languages*, 1921.
- OSCAR ARVLE KINCHEN, B. A., M. A. (University of Oklahoma). *Assistant Professor of History*, 1924. (Resigned, December 31, 1924.)
- ALFRED EDWIN LUSSKY, Diploma (Concordia College), Diploma (Concordia Theological Seminary), M. A. (University of Illinois), Ph. D. (University of Michigan). *Professor of German*, 1921, 1915.
- WALTER BASIL MAHAN, A. B. (Centre College), Ph. D. (University of Chicago). *Assistant Professor of Psychology and Philosophy*, 1923.
- ANTONIO MARINONI, B. A. (Desenzano, Italy), M. A. (Yale University). *Professor of Romance Languages*, 1906, 1905.

- EDGAR MARTIN, B. S. in Agr. (Kansas State Agricultural College), M. S. (University of Wisconsin). *Assistant Professor of Animal Husbandry*, 1923.
- †RALPH HEDGES MASON, B. S. A. (University of Missouri). *Assistant Professor of Animal Husbandry*, 1918.
- CHALMER KIRK MCCLELLAND, B. S. A. (Ohio State University), M. S. A. (Cornell University). *Assistant Professor of Agronomy*, 1921.
- ALBERT DUEY MCNAIR. *Professor of Farm Management*, 1920.
- DWIGHT MUNSON MOORE, B. S., M. S. (Denison University), Ph. D. (Ohio State University). *Assistant Professor of Botany*, 1924.
- DEWITT TALMADGE MULLETT, A. B. (Indiana University), First Lieutenant, U. S. Army. *Assistant Professor of Military Art*, 1923.
- †MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Professor of Agronomy*, 1918, 1908.
- †LYNN WESLEY OSBORN, B. S. A. (Iowa State College). *Assistant Professor of Agronomy*, 1916, 1913. (Resigned February 1, 1925.)
- *STELLA PALMER, B. S. (University of Alabama), M. A. (Columbia University). *Professor of Home Economics and of Home Economics Education*, 1918.
- SAMUEL REYNOLDS PARSONS, B. S. (Massachusetts Agricultural College), M. S. (Pennsylvania State College), Ph. D. (University of Michigan). *Assistant Professor of Physics*, 1923.
- LOUIS ALPHONSE PASSARELLI, B. A. (Columbia University), M. A. (University of Toronto). *Assistant Professor of Romance Languages*, 1921.
- †CHARLES WORKMAN RAPP, B. S., M. S. (Oklahoma A. and M. College). *Assistant Professor of Horticulture*, 1920.
- †JOHN WILLIAM READ, B. S. A., M. S. (University of Missouri). *Professor of Agricultural Chemistry*, 1918.
- MARTHA MCKENZIE REID, M. A. (University of Missouri). *Associate Professor of Ancient Languages*, 1924, 1923.
- CHARLES MYRON REINOEHL, B. A., M. A. (Indiana University), Ph. D. (University of Chicago). *Professor of School Administration*, 1921.
- GILES EMMETT RIPLEY, B. A., M. S. (Purdue University). *Professor of Physics*, 1908.
- †HARRY ROBERT ROSEN, B. S. (Pennsylvania State College), M. S. (University of Wisconsin), Ph. D. (Washington University). *Associate Professor of Plant Pathology*, 1918.
- †WARD HANSON SACHS, B. S. (Illinois Wesleyan College), M. S. (University of Missouri). *Associate Professor of Agronomy*, 1919.
- *HERMAN AUSTIN SANDHOUSE, B. S. (Colorado Agricultural College), M. S. (Iowa State College). *Assistant Professor of Animal Husbandry*, 1922, 1915.

- SAMUEL JAMES SCHILLING, B. S. (University of Wisconsin), D. V. M. (Ohio State University). *Associate Professor of Veterinary Science*, 1922.
- FRANCIS ALBERT SCHMIDT, LL. B. (University of Nebraska). *Professor of Physical Education for Men*, 1922.
- IRENE STALEY, B. S., M. A. (Columbia University). *Assistant Professor of Physical Education for Women*, 1922.
- MIRIAM FRANKLIN SHOWALTER, A. B. (Indiana University), M. S. (Purdue University). *Assistant Professor of Education*, 1923.
- HARRY EVERIST SHULTZ. *Professor of Voice*, 1924.
- WILLIAM ALEXANDER SMITH, Major U. S. Army. *Professor of Military Science and Tactics*, 1923.
- WALTER RUSSELL SPENCER, B. A. (Indiana University), B. S. C. E. (Rose Polytechnic Institute). *Associate Professor of Civil Engineering*, 1921, 1919.
- WILLIAM DOYD STEELZNER, B. E. E., E. E. (University of Arkansas), M. S. (Ohio State University). *Professor of Electrical Engineering*, 1919, 1909.
- ‡GEORGE PATRICK STECHER, B. S. in C. E. (University of Wisconsin). *Professor of Civil Engineering*, 1919.
- †SAMUEL ROEMAN STOUT, B. S. A. (University of Arkansas). *Assistant Professor of Animal Husbandry*, 1919, 1916.
- HENRY HARRISON STRAUSS, B. A. (Wooster College), M. A. (Tulane University). *Professor of Ancient Languages*, 1914, 1913.
- †BARNETT SUBER, B. S., M. S., Ph. D. (University of Wisconsin). *Associate Professor of Agricultural Chemistry*, 1921, 1920.
- CARRIE PLENKETT TAYLOR, B. S. (Iowa State College). *Acting Professor of Home Economics*, 1924, 1922.
- DAVID YANCEY THOMAS, B. A. (Emory College), M. A. (Vanderbilt University), Ph. D. (Columbia University). *Professor of History and Political Science*, 1912, 1907.
- HENRY DOUGHTY TOVEY, B. Mus., Mus. D. (Knox College). *Professor of Music*, 1908.
- †JACOB OSBORN WARE, B. S. A., M. S. (North Carolina State College). *Assistant Professor of Agronomy*, 1920.
- HERBERT STEVENSON WARREN, B. S. (College of the City of New York), M. A. (Columbia University). *Acting Professor of Zoology*, 1924.
- JULIAN SELSEL WATERMAN, B. A. (Tulane University), M. A. (University of Michigan), J. D. (University of Chicago). *Professor of Law*, 1924, 1914.
- JOSEPH JOHN WEBER, B. A., M. A. (University of North Dakota), Ph. D. (Columbia University). *Professor of Secondary Education*. (Appointed January 1, 1924.)
- EDGAR WERHEIM, B. S. (Northwestern University), B. P. E. (Y. M. C. A. College, Chicago), M. S. (University of Kansas), Ph. D. (University of Chicago). *Associate Professor of Chemistry*, 1921.

- †BIRTON NEILL WILSON, B. S. M. E. (Georgia School of Technology), M. E. (University of Michigan), M. M. E. (Cornell University). *Professor of Drawing and Architecture*, 1917, 1896.
- JAMES WARREN WORKMAN, B. A. (Henderson-Brown College), B. A., M. A., B. D. (Yale University). *Assistant Professor of Bible*.
- VIVE HALL YOUNG, Ph. B., Ph. M., Ph. D. (University of Wisconsin). *Professor of Plant Pathology*, 1923.

INSTRUCTORS AND ASSISTANTS

- †MARTIN ADKISSON ALEXANDER, B. S. (State College of Washington), M. S. (Colorado Agricultural College). *Instructor in Animal Husbandry*, 1924.
- WILLIAM BOYD ALLEN, B. S. in Arch Engin (Iowa State College). *Instructor in Drawing and Architecture*, February, 1925.
- LEILA MAE ARMSTRONG, B. F. (Eastern Illinois State Teachers College), *Instructor in Education*, 1924.
- HAROLD THOMAS BARR, B. S. in A. E. (University of Missouri). *Instructor in Agricultural Engineering*, 1923.
- LOY BARTON, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.
- LEORA BLAIR, B. A. (University of Arkansas), M. A. (University of Chicago). *Instructor in Education*, 1920.
- OLIVE P. BUCHHOLZ, A. B. (Wellesley College), M. S. (University of Chicago). *Assistant in Mathematics*, 1924.
- CHARLES VICTOR BULLEN, B. S. in E. E. (University of Texas). *Instructor in Electrical Engineering*, 1923.
- MAUDE ETHEL BUNKER, Ph. B. (University of Wisconsin). *Instructor in Education*, 1920.
- WALTER F. CRANGLE, B. S. (University of Illinois). *Assistant Director of Athletics*, 1924.
- WILLIE VANDEVENTER CROCKETT. *Instructor in Expression*, 1905.
- CHARLES BURTON CROFUTT, B. A. (Cornell College), M. S., Ph. D. (University of Iowa). *Instructor in Physics*, 1923.
- CAREY GARDINER CRONEIS, B. S. (Denison University), M. S. (University of Kansas). *Instructor in Geology*, 1923.
- MARY ANN DAVIS. *Instructor in English*, 1915.
- BLAINE MORRISON DELANCEY, A. B. (Marietta College), M. A. (Ohio State University). *Instructor in English*, 1924.
- JAMES DINWIDDIE. *Instructor in Mechanical Engineering*, 1916.
- JEFF FARRIS. *Assistant Coach*, 1924.
- ELIZABETH JACKSON GALBRAITH, B. A. (West Tennessee Christian College). *Instructor in Art*, 1906.
- MILDRED GILLESPIE. *Assistant in Organ*, 1922.
- JACK MURRAY GREATHOUSE, Sergeant, U. S. Army. *Assistant in Military Art*, 1919.
- SIDNEY GUARD, Sergeant, U. S. Army. *Assistant in Military Art*, 1924.

- MARY BURNLEY GWATHMEY, B. A. (University of Richmond), Diploma (New York School of Fine and Applied Art). *Instructor in Art*, 1922.
- DAVID CLINTON HANSARD. *Instructor in Violin*, 1923, 1916.
- JOHN COYNE HARDGRAVE. *Instructor in Mechanical Engineering*, 1923.
- MARY RUDOLPH HASTINGS, B. A. (Ouachita College), B. A. (Columbia University). *Instructor in English*, 1923.
- WILLIAM BEST HESSELTINE, B. A. (Washington and Lee University), M. A. (University of Virginia). *Instructor in History and in Economics and Sociology*, 1924.
- HUBERT BYNUM HINDS, B. S. A. (University of Arkansas). *Instructor in Vocational Agriculture*, 1923.
- DAISY YOUNG HOLCOMB, B. A. (University of Arkansas), B. A., M. A. (University of Missouri). *Instructor in Zoology*, 1922.
- DOUGLAS LUCAS HUNT, Ph. B., M. A. (University of Chicago). *Instructor in English*, 1923.
- H. G. M. JACOBSON, B. S. (University of Illinois), M. S. (Iowa State College). *Instructor in Agronomy*, 1924.
- MADGE ELMA JOHNSON, B. S. H. E. (University of Arkansas), M. A. (Columbia University). *Instructor in Home Economics*, 1923.
- FAYE KEEVER, B. S. (University of Minnesota). *Instructor in Home Economics*, 1924.
- LYNA BEERS MANSFIELD, Diploma (New Haven Normal School of Gymnastics), B. A. (Brenau College). *Instructor in Physical Education for Women*, 1923.
- GRANT MCCOLLEY, B. A. (Lake Forest University), M. A. (Northwestern University). *Instructor in English*, 1923.
- HOWARD WALDO MCKINLEY, B. S. (Colorado Agricultural College). *Instructor in Vocational Subjects*, 1921.
- OWEN MITCHELL. *Instructor in Music*, 1923, 1913.
- WILLIAM HERBERT MOORE, B. S. in Comm. (University of Iowa). *Instructor in Economics and Sociology*, 1923.
- BENJAMIN FRANKLIN KELSO MULLINS, B. A., M. S. (Emory University). *Instructor in Civil Engineering*, 1923.
- AGNES NELSON, Ph. B. (University of Chicago). *Instructor in Home Economics*, 1921.
- GRACE MARGARET PALMER, A. B. in Ed. (Kansas State Teachers College), Ph. B. (University of Chicago). *Instructor in Art*, 1924.
- ANNA GRACE PARMELEE. *Instructor in Public School Music*, 1924, 1922.
- CLAUDE DENSON PEPPER, B. A. (University of Alabama), LL. B. (Harvard University). *Instructor in Law*, 1924.
- LYMAN EDWARDS PORTER, B. A., M. A., Ph. D. (Yale University). *Instructor in Chemistry*, 1921.

- HERMAN SCHNURER, B. A. (Columbia University), Docteur d'Université (University of Paris). *Instructor in Romance Languages*, 1924.
- EDGAR GREER SHELTON, B. S. in Arch. (University of Texas). *Instructor in Drawing and Architecture*, 1923. (Resigned February 21, 1925.)
- LEVI CLARK STARBIRD, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.
- JOSEPH TAYLOR STRATE, B. S. M. E. (University of Wisconsin). *Instructor in Mechanical Engineering*, 1924.
- FRANCIS EMMETT TAYLOR, B. S. (Illinois College), M. A. (University of Illinois). *Instructor in Mathematics*, 1923.
- ANDREW JACKSON THOMPSON. *Instructor in Mechanical Engineering*, 1921.
- ESTHER C. WARREN, B. A. (University of Iowa), M. A. (Columbia University). *Instructor in Botany*, 1924.
- MARY CATHARINE WEADOCK, A. B., M. A. (University of Michigan). *Critic Teacher for Languages*, 1924.
- CLIFFORD BARNES WIGGANS, B. S. A. (University of Missouri), M. S. (University of California). *Instructor in Horticulture*, 1924.
- WILLARD CORWIN WILBANKS, B. S. A. (Clemson Agricultural College). *Instructor in Dairying*, 1921.
- *ELIZABETH PURNELL WILSON. *Instructor in Education*, 1919.

STANDING COMMITTEES OF THE
UNIVERSITY SENATE, 1924-25

Note.—The name of the chairman stands first.

Accredited Schools—Professors Cade, Dvorachek, Jordan, Spencer, the Registrar.

Advisers—Deans Droke, Gladson, Jewell, Nelson.

Athletics—Professors Wilson, Marinoni, Schmidt, Stout, President Futrall.

Catalog—Mr. Kerr, Professors Sachs, French, Fracker, Cushman.

Commencement—Professors Ripley, Jobelle Holcombe, Kessler, Tovey.

Discipline and Attendance—Dean Gladson, Professors Reinoehl, Stocker, Thomas, Young.

Graduate Study—Professors Baerg, Buchholz, Jordan, Lussky, Miller, Strauss, Fracker.

Honorary and Higher Degrees—Dean Droke, Professors Nelson, Read, Reinoehl, Parsons.

Intercollegiate Debating—Professors Jordon, Jamison, Jones, Thomas, Waterman.

Library—Professors Thomas, McNair, Stelzner, Dean Jewell, the Librarian.

Research—Professors Hale, Buchholz, Isley, Miller, Thomas, Waterman, Young.

Schedule—Professors Wilson, Carter, Reinoehl, Humphreys, the Registrar.

Statistics—Professors Cady, Bleecker, Campbell, Passarelli, Cushman.

Student Affairs—Dean Gladson, Professors Hale, Jobelle Holcombe, Jones, Reid.

Student Organizations—Professors Stelzner, Cooper, Hastings, Holloway, Wertheim, the Registrar.

Student Publications—Professors Ripley, Hastings, Smith, Stocker, French, Mr. Carlson.

GENERAL INFORMATION

DIVISIONS

The University of Arkansas is composed of the following divisions: the College of Arts and Sciences, the College of Education, the College of Engineering, the College of Agriculture, the Law Department, the Agricultural Experiment Station, the Engineering Experiment Station, and the General Extension Service, at Fayetteville; the School of Medicine and the Agricultural Extension Service at Little Rock; and the Agricultural, Mechanical, and Normal School, at Pine Bluff.

LOCATION

Fayetteville* is located in Washington County, in the northwestern part of the state, in the heart of the Ozark Mountains, at an elevation of about 1,500 feet. The surroundings are of great natural beauty, and the excellent climate of the region in all seasons is known throughout the southwest.

Fayetteville may be reached from both the north and the south by the Texas branch of the St. Louis & San Francisco ("Frisco") Railroad. The Muskogee division communicates with the west.

The moral and religious conditions of the community are most favorable, as is shown by the choice of Fayetteville as site for the Western Methodist Assembly, on Mount Sequoyah, on the eastern border of the town. With all of Missouri, Arkansas, Oklahoma, Texas, and Louisiana to choose from, Fayetteville was the spot selected for the Assembly.

There are 12 churches in the town, representing 11 denominations. The pastors of these churches actively interest themselves in the moral and spiritual welfare of the students.

HISTORY

The University of Arkansas owes its origin to a public land grant Act of the Federal Congress, which was accepted by the General Assembly of the state March 27, 1871, in an act which provided for the location, organization, and maintenance of the institution. Fayetteville was selected as the seat, and the University was opened January 22, 1872. It has been in continuous operation since that time.

The growth of the University has been steady from its beginning, and the institution is now developing rapidly in attendance, in standards of scholarship, and in breadth of influence. Every section of the state is represented by students on the campus, and the University is also attracting a growing number of young people from other states. Young women have been admitted to its courses from the first day of its existence.

The institution, as originally organized, was not divided ac-

*Note.—The departments of the University which are located at Little Rock and Pine Bluff are dealt with in later pages.

cording to the present designations. Thus, although courses in engineering were offered almost from the opening of the University, and degrees were conferred, it was not until 1893 that the College of Engineering was organized as such. Similarly, the College of Agriculture was not established under its present name until 1905, nor the College of Education until 1916, despite the fact that instruction in these fields had been given from the very first years of the institution. The Agricultural Experiment Station was established in 1887, under an Act of Congress known as the Hatch Act. The present General Extension Service and Agricultural Extension Service were announced in the 1918 catalog of the University for the first time, but extension work has been offered since 1910. The Engineering Experiment Station was established in 1920.

INCOME AND RESOURCES

The income of the departments of the University at Fayetteville for the fiscal year 1923-24 was as follows:

Federal Government—

Morrill and Nelson Funds.....	\$ 36,363.00
Smith-Hughes Funds.....	2,415.00
State Appropriation.....	455 000 00
Student Fees.....	54,919.00
Interest on Endowment.....	6,903.00
General Education Board.....	3,500.00
Vocational	27 007 00
Miscellaneous	15,000.00
Total	\$601,107.00

The Agricultural Experiment Station receives from the Federal Government (Hatch and Adams Funds) \$30,000.00 a year, and from sale of farm products about \$12,000.00 a year.

The equipment, buildings and grounds at Fayetteville are estimated to be worth about \$1,000,000.00.

BUILDINGS AND EQUIPMENT

The campus at Fayetteville comprises a tract of wooded land of about one hundred twenty acres on a hill overlooking the town, and includes some twenty buildings. The University has its own heating plant, and is supplied with electric light and water from the city plants.

DORMITORIES

Two dormitories are provided for the housing of men students. *Buchanan Hall*, a three-story brick structure, contains about forty student rooms. *Hill Hall*, likewise a three-story brick building, contains about twenty rooms for students, besides a recreation hall, and a dining hall. All rooms are provided

with beds, mattresses, a table, and two chairs; all other furnishings are supplied by the occupants.

Carnall Hall, the dormitory for young women, is an attractive three-story brick structure, and contains rooms sufficient for about one hundred students, with parlors, a dining hall, and a recreation room. Furnishings are similar to those in the men's dormitories.

UNIVERSITY HALL

This structure, erected in 1872, is the old "main building." It is five stories in height and forms three sides of a quadrangle. Its 70 rooms include the offices of administration and some of the class-rooms and laboratories of the College of Arts and Sciences.

The *Main Library* of the University occupies two floors in the south wing of University Hall. On the first floor are the librarian's office and a large, well-lighted reading room, containing reference and reserve books and current and bound periodicals. The basement floor is taken up with the stack room and the work room of the cataloging department. Adjacent to the stack room is the recently created law library of 3,000 volumes. Other departmental libraries are housed in the Chemistry, Engineering, and Agricultural buildings.

The University libraries contain altogether nearly 62,000 volumes:

Classified books.....	36,900
Bound periodicals.....	4,100
Government and State documents.....	21,000

Auditorium. The University Auditorium, seating 667, is on the ground floor.

Religious Organizations. Both the Y. M. C. A. and the Y. W. C. A. have attractive rest-rooms in this building, comfortably furnished and serving as the headquarters of their respective secretaries.

The Biological and Geological Laboratories. The laboratories for Botany, Zoology, and Geology are supplied with equipment fully adequate for the courses offered.

The *Museum* contains various collections (mineral, petrographic, paleontological, botanical, zoological, relief maps) made with the view to facilitating instruction in biology and geology.

The *Art Studio* is equipped for work in design, drawing, and painting.

Military. The Military Department, with the usual equipment, including band instruments, occupies several rooms in the basement.

The *Book Store* contains a complete line of text-books and supplies.

CHEMISTRY BUILDING

This building contains laboratories for quantitative and qualitative analysis, for organic and physical chemistry, for assaying, besides balance-room, a library, a large lecture-room, and a general laboratory for beginning students.

AGRICULTURAL BUILDING

This building contains the main administrative offices of the College of Agriculture, the offices of the Dean and Director, and of the department of Agronomy and Soils. Here are located the cotton laboratory, where instruction in cotton grading is given, and where the laboratory work in cotton is conducted, class rooms and the laboratories for field crops and for soils.

DAIRY BUILDING

This is a stone building containing the offices of the department of Animal Husbandry and Dairying, the class rooms of that department, a dairy laboratory, and the college creamery, which manufactures about 5,000 pounds of butter each week and serves as a means of instruction in creamery work.

AGRICULTURAL LIBRARY BUILDING

This is a small brick building consisting of a stack room and a reading room, and contains about 3,000 bound volumes and 5,000 unbound bulletins and pamphlets. Files of 25 scientific periodicals are kept.

GRAY HALL

A two-story brick building known as Gray Hall houses the Agricultural laboratories, which are well equipped for instruction of students and for station work along these particular lines of investigation. The following departments are included: Agricultural Chemistry, Agricultural Engineering, Bacteriology, Entomology, Horticulture, Plant Pathology, Veterinary Science, and Agricultural Education.

LIVE STOCK

At the barns west of the campus and at the Experiment Station Farm the College of Agriculture and Experiment Station has a large amount of live stock for instructional and experimental purposes. This consists of about one hundred head of cattle, including Jerseys, Holsteins, Ayrshires, of the dairy breeds; Shorthorns, Herefords, and Angus, of the beef breeds. Among them are some of the best cattle in the State of Arkansas, including many prize winners. Three breeds of hogs are also kept for the work of the institution, consisting of Poland

Chinas, Durocs, and Tamworths, and numbering from seventy-five to one hundred fifty head according to the season. Poultry to the number of eight hundred to one thousand birds are carried in the breeding and other experimental work of the College.

FARM LANDS AND ORCHARDS

The College of Agriculture and Experiment Station have approximately six hundred acres of land in the new Experimental Farm and the lands adjacent to the University Campus. These are used in general farming and in the active work of the State Experiment Station. Agronomy has about one hundred twenty acres in experimental work in soils and crops. The department of Horticulture farms about sixty-five acres, consisting of a fine new apple orchard, a mature apple orchard covering forty acres in all, also a vineyard, and room for vegetable work. The department of Animal Husbandry has the barns, pastures, and crops for the live stock. These facilities are used in work of instruction as well as experimentation.

Extensive improvements in fencing, tiling, buildings, and city water connections have been completed during the past year.

GREENHOUSE

The Greenhouse has recently been enlarged to care for the needs of the departments of Botany, Horticulture, Agronomy, and Plant Pathology. It now has floor space 50 by 75 feet, with an adjoining laboratory.

PEABODY HALL

Peabody Hall is used by the College of Education. It is a modern, fireproof building, containing about thirty rooms for class work, various offices, a large assembly room, a manual training shop, home economics, laboratories, and rooms in which the college classes in Education and Psychology meet.

The *University High School* and the primary grades for practice teaching are also conducted in this building.

The *Home Economics Laboratories* occupy practically all of one floor, with rooms for cookery, sewing, millinery, and table service, and the reception room. The equipment in each laboratory is new and modern.

ENGINEERING HALL

This building contains the offices, recitation rooms, drawing rooms, and testing laboratories of the civil, electrical, and mechanical engineering departments.

In the *Civil Engineering Testing Laboratory*, the road materials testing equipment is complete for making all the standard tests as recommended by the U. S. Office of Public Roads. The

cement and concrete testing equipment is sufficient for making all the standard tests in cement and on small specimens of concrete. The structural materials testing department is equipped for making tension, compression, and impact tests on small specimens of practically all structural materials. The hydraulic laboratory equipment, although rather limited, is sufficient to give practical demonstration in connection with elementary hydraulics.

The *Civil Engineering Instrumental Laboratory* is provided with all the necessary instruments for work in land, railroad, and city surveying, practical astronomy, and office work. The equipment of field instruments has been so selected as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers.

The *Electrical Engineering Laboratories* offer excellent facilities for experimental work. The main laboratory is supplied with a variety of types and sizes of direct current and alternating current generators, motors, control equipment and instruments; storage batteries, converters and rectifiers, synchronous converters, transformers, condensers, inductances, etc. Adequate switchboards and wiring are provided for convenience in testing. A well equipped instrument and repair shop is maintained in connection with the laboratory.

The *Standardizing Laboratory* is equipped with standards and precision instruments and is wired and arranged for facility in standardizing work.

The *Photometric Laboratory* has a standard photometer bar and accessories, several types of portable photometers, and lighting units as equipment.

The *Telephone Laboratory* has magneto and central energy switchboards complete, test lines, and numerous telephone and wireless instruments.

The *Mechanical Engineering Laboratory* is equipped with steam and gasoline engines, condenser, boiler feed pumps, and other power plant equipment for conducting standard tests. In addition to the power plant equipment, the laboratory is provided with apparatus for fuel testing, oil testing, flue gas analysis, and for testing materials of construction.

MECHANICAL HALL

Mechanical Hall contains the machine shop, wood shop, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room.

PHYSICS BUILDING

The *Physics Building* is a two-story frame building containing ten rooms for lecture and laboratory work in physics. On the first floor are two laboratory rooms, a large lecture room, a store room, and an office room. The second floor includes a large lecture room, a laboratory room, a photometric room, a

work-shop room, and a library. Concrete piers are provided for all delicate work in the laboratories and for the delicate balances. The equipment of apparatus is fairly complete and of sufficient variety and duplication to permit the instruction of large sections in the laboratories.

MUSIC BUILDING

The *Department of Music*, including piano, voice, violin, cello, and organ, is housed in a one-story brick building with sound-proof studios and individual practice rooms.

BROADCASTING STUDIO BUILDING

Station KEMQ has a well equipped frame building especially designed for radio broadcasting.

UNIVERSITY CLUB

This building stands between the Agricultural Building and the Chemistry Building. It contains, besides the assembly rooms of the faculty organization, a modern cafeteria for faculty, students, and others, located on the ground floor.

LITTLE THEATER

The *Department of Public Speaking* has an attractive small building, furnished with stage, scenery, seats, and special lighting.

INFIRMARY

The *Infirmary* is under the supervision of the University physician and a trained nurse. The building is furnished with open and private wards for men and women, and a well isolated ward for contagious diseases.

BASKET-BALL COURT

The new indoor basket-ball court, built partly with private funds, is a frame structure 50 by 100 feet in size, with seats for 1,000 spectators around the court. In the basement are commodious dressing-rooms with baths and lockers.

WOMEN'S GYMNASIUM

The new women's gymnasium has just been completed. It provides floor space 60 by 90 feet, offices and class-rooms, with lockers and shower baths in the basement.

ATHLETIC FIELD

Grounds for athletic sports contain the football gridiron, the baseball diamond, the quarter-mile track, and facilities for outdoor basket-ball, volley ball, and other games. Tennis courts are located in various places on the campus.

ADMISSION

Students may be admitted to the University in two ways:

a. By presenting 15 units in acceptable subjects from accredited secondary schools.

b. By passing an examination given by the University in 15 units in acceptable subjects.

ADMISSION BY EXAMINATION

General Examinations. Entrance examinations are offered at the University during the opening week of school. Students living at a distance from the University may secure special examinations to be conducted by the school principal or the county superintendent under conditions that will be indicated when the application is made. Requests for examination must be mailed so as to reach the University Examiner not later than September 1.

Intelligence Test. Persons 21 years of age, or over, who do not possess a satisfactory secondary school record, may secure admission to the University and pursue courses leading to a degree by passing a general intelligence test designed to determine the applicant's mental powers and alertness.

ADMISSION BY CERTIFICATE

Class A Schools—All graduates of class A high schools and preparatory schools of this state are admitted to the freshman class of the University. This privilege will be granted also to all graduates of schools accredited by the North Central Association of Colleges and Secondary Schools, or by similar accrediting bodies in other territories.

Class B Schools—Graduates of these schools who present 15 units of work approved by the University are admitted to the freshman class. Students coming from high schools or preparatory schools located in another state not accredited by the territorial association but accredited by the state university of that state, may enter the University upon the same terms. For subjects accepted for admission see later pages.

All candidates are expected to meet the specific requirements of the college or curriculum they desire to enter. Any student unable to meet the entrance requirement of a particular college or curriculum, or any student whose entrance credit in acceptable subjects was reduced to satisfy University regulations, will be allowed to make up not more than one deficiency by examination, or by courses pursued in summer school, or by courses pursued in the regular session intended primarily for freshmen. If University courses are offered to remove such deficiencies,

nine term hours of college work shall be equivalent to one entrance unit.

Any student who has completed 15 or more units in acceptable courses in the high school, but who has attended high school less than four full years, shall be conditioned in one entrance unit. This condition may be removed by making a passing grade in 12 hours of work during the first term of the freshman year, otherwise the student must make up this condition in the manner described above.

Students who have been previously admitted to another college or university of equal standing will be allowed to enter without conditions upon presenting a certificate of honorable discharge, and an official statement of the work accepted for entrance by the institution last attended, provided it appears that such work is substantially equivalent to the work required for entrance to the University of Arkansas.

An official statement of the student's record, containing specific information as to the kind and extent of work done, should be mailed to the Registrar of the University as early in the summer as possible and in no case later than September 1. Blank forms for this purpose will be furnished upon request. Diplomas of graduation will not be accepted in lieu of certificates.

ENTRANCE REQUIREMENTS

A minimum of 15 standard entrance units is required for admission to any division of the University. The specific subjects required vary somewhat with the course of study the applicant plans to pursue and are indicated in the following table:

SPECIFIC REQUIREMENTS FOR ADMISSION

COLLEGE AND COURSE	UNITS REQUIRED				MISCELLANEOUS
	English	Algebra	Geometry	History	
College of Arts and Sciences					
Bachelor of Arts	3	1	1	1	
Bachelor of Science	3	1	1	1	1 unit natural science required.
Bachelor of Music	3			1	Maximum of 3 units in music allowed.
College of Education.....	3	•	•		*2 units in mathematics and science group required; also 1 unit social science.
College of Engineering	3	1½	1½	1	Δ Includes solid geometry.
College of Agriculture.					
Agriculture	3	1	1		Mathematics alternative: 1½ of algebra ½ of geometry.
Home Economics.....	3	1		1	
Law Department	Requires 15 standard high school units and two years of college work.				

Accredited Smith-Hughes High Schools

To be eligible for classification as an accredited Smith-Hughes High School, such school must be approved by the State Supervisor, and the agriculture or home economics taught must be approved by the faculty of the College of Agriculture of the University of Arkansas.

Note.—A maximum of four units of vocational subjects will be allowed, except as follows:

(a) Students preparing to teach agriculture, home economics, and commercial subjects may offer seven and one-half units in vocational subjects toward admission to the College of Education.

(b) Students entering from the district agricultural schools and accredited Smith-Hughes high schools may present seven and one-half units of vocational and business subjects toward admission to the College of Agriculture.

SUBJECTS ACCEPTED FOR ADMISSION

The following statements indicate in a general way the preparation which is expected in the various subjects accepted for admission. The numbers in parentheses following each subject indicate the minimum and maximum number of units which may be offered in that subject. The term unit is understood to represent a high school or preparatory course continued through a school year of 36 weeks with five recitations of 45 minutes each a week. In all laboratory work a double period of 90 minutes will be equivalent to a single recitation period of 45 minutes.

ENGLISH (3-4)

In order to secure a definite plan of study and unity of method on the part of the preparatory schools, the entrance requirement in English is outlined below somewhat in detail, following the recommendation of the National Conference on Uniform Entrance Requirements in English.

The study of English in school has two main objects: (1) Command of correct and clear English, written and spoken; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition—The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition govern punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered, and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy expository and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of making good English in his recitations and various exercises, whether oral or written.

Literature—The second object is sought by means of two lists of books, headed, respectively, *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud, and be encouraged to commit to memory some of the more notable passages in both verse and prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

The College Entrance Examination Board has prepared two lists of books, a "Restricted" list and a "Comprehensive" list. The choice of books for reading and study in the Comprehensive list is rather wide. Copies of this list may be secured from the publishing houses, or from the College Entrance Examination Board, 431 West 117th Street, New York City. It should be noted that, though the "Comprehensive" list contains a number of books by living writers, it does not include contemporary novels of no permanent value. Such novels will not be accepted as part of the entrance requirement. The "Restricted" list is printed below, with suggestions as to set off the units. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

List of Books, 1924-1925

A. Reading

From each group two selections are to be made, except that for any book in Group V a book from any other group may be substituted.

Group I. *Prose Fiction*.—Dickens, *A Tale of Two Cities*; George Eliot, *Silas Marner*; Scott, *Quentin Durward*; Stevenson, *Treasure Island* or *Kidnapped*; Hawthorne, *The House of Seven Gables*.

Group II. *Drama*.—Shakespeare, *Merchant of Venice*; Julius Caesar; *King Henry V*; *As You Like It*.

Group III. *Poetry*.—Scott, *The Lady of the Lake*; Coleridge, *The Ancient Mariner*; Arnold, *Sohrab and Rustum*; a collection of representative verse, narrative and lyric; Tenyson, *Idylls of the King* (any four); the *Aeneid* or the *Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I—V, XV, and XVI of the *Odyssey*.

Group IV. *Essays, Biography, etc.*—The Old Testament (the chief narrative episodes in *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther*); Irving, *The Sketch Book* (about 175 pages); Addison and Steele, *The Sir Roger de Coverley Papers*; Macaulay, *Lord Clive*; Parkman, *The Oregon Trail*; Franklin, *Autobiography*.

Group V. *Contemporary Literature*.—A modern novel; a collection of short stories (about 150 pages); a collection of contemporary verse (about 150 pages); a collection of prose writing on matters of current interest (about 150 pages); two modern plays.

All selections from this group should be works of recognized excellence.

B. Study

One selection is to be made from each group.

Group I. *Drama*.—Shakespeare, *Macbeth*; *Hamlet*.

Group II. *Poetry*.—Milton, *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lucifer*; Browning, *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Philippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, *"De Gustibus," Instans Tyrannus*, *One Word More*.

Group III. *Essays*.—Macaulay, *Life of Johnson*; Carlyle, *Essay on Burns* with a brief selection from Burns's *Poems*; Arnold, *Wordsworth*, with a brief selection from Wordsworth's *Poems*.

Group IV. *Orations*.—Burke, *Speech on Conciliation with America*; a collection of orations, to include at least Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

Note.—The reading list adopted by the Arkansas State Board of Education may be substituted for either of the preceding lists, subject to the approval of the University in each case.

MATHEMATICS

Elementary Algebra. (1).—Positive and negative numbers; addition, subtraction, multiplication, division; factoring, highest common divisor and lowest common multiple by factoring; fractions; equations of the first degree, in one, two or three unknowns, with numerous problems involving such equations; evolution (omitting the binomial theorem); evolution (omitting cube root); graphical representations and graphical methods in the solution of equations of all types; pure quadratic equations; affected quadratic equations by the method of completing the square and by factoring with problems involving such equations.

Higher Algebra. (1½-1).—A review of elementary algebra with more difficult problems and with some demonstrational work; theory of quadratics, simultaneous quadratics, ratio and proportion, variation, progressions, arithmetical, geometrical, and harmonical, binomial theorem, and logarithms. One unit will be allowed for this work provided that the course is pursued during the fourth year of the high school or after the pupil has done a year of work in plane geometry; otherwise, only one-half unit will be allowed.

Plane Geometry. (1).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

Solid Geometry. ($\frac{1}{2}$).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

Plane Trigonometry. ($\frac{1}{2}$).—This should include a thorough study of some standard high school text. The exercises requiring solutions and demonstrations should be emphasized.

HISTORY AND SOCIAL SCIENCES

History

Ancient History. ($\frac{1}{2}$ -1).—The completion of a standard text-book, with emphasis on the history of Greece and Rome and some attention to geography, will satisfy the requirements for one unit.

Medieval and Modern History. ($\frac{1}{2}$ -1).—The completion of a standard text covering the history of Europe in medieval and modern times, some parallel reading, and a knowledge of the geography involved, will satisfy the requirements for one unit.

European History. ($\frac{1}{2}$ -1).—In place of the one unit courses in ancient history and medieval and modern history outlined above, two units of credit will be given for courses in European development.

English History. ($\frac{1}{2}$ -1).—An advanced high school text should be used. Constitutional points should receive attention, and easily accessible documents should receive careful study.

American History. ($\frac{1}{2}$ -1).—An advanced high school text should be used and the subject should be taken preferably in the senior year. Current newspapers and magazines should be assigned as collateral reading.

Social Sciences

Community Cities and Vocations. ($\frac{1}{2}$ -1).—The aim of the course should be to help the child to know his community—not merely a group of facts about it, but the meaning of his community life, what it does for him, and how it does it, what the community has a right to expect from him, and how he may fulfill his obligations. This course should include a thorough study of some standard text.

Elementary Economics. ($\frac{1}{2}$).—In the study of economics it is desirable to avoid two extremes, abstract theory on one hand, and controversial questions, such as the tariff, trusts, and trade unions, on the other hand. Emphasis should be placed on the historical and descriptive matter, especially relating to the economic development of England and the United States. Some good elementary text-book should be mastered and a reasonable amount of collateral reading required.

Elementary Sociology. ($\frac{1}{2}$).—Concrete facts and problems; particularly of the social groups with which pupils are most familiar, such as the neighborhood, the local community, the play gang of adolescents, and the family, should be stressed.

Civil Government. ($\frac{1}{2}$ -1).—This should be a study of our government, national, state, and local, as it is organized and actually operated today. The instruction should aim to impart information essential to intelligent active citizenship, such as the division of the government into departments, their organization and functions; the methods of nominating, electing, and appointing men to office; of framing and amending constitutions, city charters, and statutes; of drawing grand and petit juries and the duty of the citizen to serve on them; the distinction between common law, state law, and constitutional law; between equity, civil, and criminal cases.

Commercial Geography. ($\frac{1}{2}$).—This describes and seeks to explain the commerce of today. The work should cover the ways in which commerce depends on nature and on man, the development of means of transportation and communication, and a detailed study of the several commercial regions of the world, with reference to resources, industries, transportation facilities, and commerce. It should be based on the text-book, supplemented by map work and assigned readings.

LANGUAGES

Latin

Latin Grammar. (1).—This should include a thorough grounding in some standard elementary Latin Grammar. Proficiency is particularly desired in the following subjects: the analysis of the verb forms, the rules of syntax, and the principal parts of the irregular verb.

Cæsar. ($\frac{1}{2}$ -1).—First four books or selections from the seven books equivalent to four. The student is expected to be familiar with the life of Cæsar and an account of his wars.

Cicero. ($\frac{1}{4}$ -1).—Any four orations from the following list: *Against Cataline*, *Poet Archias*, *Ligarius*, *Marcellus*, *Manilian Law* (to count as two orations), the fourteenth *Philippic*. The student should also be familiar with the life of Cicero.

Virgil. ($\frac{1}{2}$ -1).—Six books of the *Æneid*. The student should be familiar with the life of Virgil and an account of his times and writings. A correct rhythmical reading of the text is to be encouraged.

Greek

Greek Grammar. (1).—This should include a thorough grounding in some standard elementary Greek Grammar, with translation from Xenophon's *Anabasis*, Book I.

Xenophon's Anabasis. (1-2).—Four books, accompanied by work in grammar and composition.

German

German Grammar. (1).—The student should know the rudiments of grammar, be able to read prose at sight, and to translate simple English sentences into German.

Advanced German. (1-3).—The student should be able to read modern German prose and poetry at sight, and to translate easy English narrative into German. A considerable amount of reading from such authors as Richl, Heyse, Freytag, Baumbach, Heine, Goethe, and Schiller will be expected.

French

French Grammar. (1).—The student should be familiar with elementary French Grammar, with special attention to the irregular verbs. He should be able to read easy prose at sight and to translate simple English sentences into French.

Advanced French. (1-3).—The student should be able to read standard French prose and poetry at sight and to translate easy English narrative into French. A considerable amount of reading from such authors as Daudet, Loti, Sandeau, Dumas, Augier, Labiche and Martin, and Hugo will be expected.

Spanish

Spanish Grammar. (1).—The student should be familiar with elementary Spanish Grammar and should be able to read easy prose and to translate simple English sentences into Spanish.

Advanced Spanish. (1-3).—The student should be able to read standard Spanish prose and poetry at sight and to translate easy English narrative into Spanish.

NATURAL SCIENCES

All of the courses in natural science should include at least two 80-minute periods of laboratory work each week.

General Science. ($\frac{1}{2}$ -1).—The course should consist of an elementary study of the applications of science to the affairs of everyday life. Such topics as atmosphere and the weather, house-heating and ventilation, foods, water supply, hygiene, and disease prevention are types of the topics which should make up the course. It is not intended that the course should be

organized as the special science, and it should not be organized with the idea of preparing students for work in the special sciences. The justification of the course must be in terms of its own intrinsic value as a training for life. This point of view is expressed in most of the late text-books on general science.

Physiology. ($\frac{1}{2}$ -1).—This should include a thorough study of some standard high school text with note-books, drawings, individual laboratory instructions, and demonstration work.

Physical Geography. ($\frac{1}{2}$ -1).—A thorough study of any standard high school text supplemented by laboratory exercises, will satisfy the requirements.

Physics. ($\frac{1}{2}$ -1).—This should include a study of at least four of the following topics: Mechanics of solids, liquids, and gases, sound, heat, light, electricity, and magnetism, based on some standard high school text and supplemented by laboratory exercises.

Chemistry. ($\frac{1}{2}$ -1).—The full year's work should include a study of both the metals and non-metals, with laboratory experiments to illustrate the common chemical laws and the more simple chemical reactions.

Biology. ($\frac{1}{2}$ -1).—A thorough study of any standard high school text supplemented by laboratory exercises will satisfy this requirement.

Botany. ($\frac{1}{2}$ -1).—The course should follow as closely as possible the nature and work of plants during the changing seasons of the year. The major portion of the work should be with living plants, naming the common plants of the neighborhood, both cultivated and native, and studying plant parts from seed to maturity.

Zoology. ($\frac{1}{2}$ -1).—Animals should be studied as living units in their relation to one another and their environments. This study should include developmental stages as well as the adult stage. The aim of the teacher should be to foster a love for animate nature and to develop accuracy in observation and description.

PUBLIC SPEAKING

Debate. ($\frac{1}{2}$).—Credit will be allowed to members of teams in the Arkansas High School Debating League who have participated in an interscholastic debate.

VOCATIONAL SUBJECTS

Not more than four units will be accepted toward entrance.

Agriculture

Plant Production. ($\frac{1}{2}$ -4).—This work should include the study of farm crops, seed selection, soils and soil fertility, diseases, and insects.

Animal Production. ($\frac{1}{2}$ -4).—This includes the study of history of breeds, feeding, breeding, judging, live stock production and marketing, and diseases.

Dairying. ($\frac{1}{2}$ -2).—Farm dairying, Babcock-testing, butter-making, and record-keeping.

General Horticulture. ($\frac{1}{2}$ -2).—Plant propagation, principles of fruit growing, vegetable gardening, diseases, and insects.

Farm Mechanics, Rural Engineering. ($\frac{1}{2}$ -4).—This work should include farm shop work (both wood and forge), drawing, farm machinery, farm motors, farm drainage, and farm buildings. Work should be especially applicable to farm practice.

Farm Management, Rural Economics. ($\frac{1}{2}$ -1).—Farm accounting, project accounting, organization, and marketing.

Business Subjects

Commercial Arithmetic. ($\frac{1}{2}$).—This should include a thorough study of some standard high school text, during the third or fourth year, otherwise no credit will be allowed.

Business Law. ($\frac{1}{2}$).—Text-book supplemented by study of a few typical cases, and practice in drawing up ordinary legal papers, such as bills, notes, checks, etc.

Elementary Bookkeeping. (1).—A text-book should be employed with exercises so arranged that no two pupils will do exactly the same work, and no credit should be allowed unless the work is done neatly, accurately and at a satisfactory rate of speed. It is suggested that double periods be provided, and all work be done in class under the eye of the instructor. The set used should include the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book.

Advanced Bookkeeping and Business Practice. (1).—Thorough drill on standard business forms, such as bills, receipts, checks, and notes, also on the use and meaning of business symbols and abbreviations. The student should become acquainted with the bill and invoice book, and loose leaf and voucher systems of bookkeeping. Each student should carry on a business of his own, first as an individual, then as a partnership, and finally as a corporation. Credit on this course should mean that the student lacks only age and actual business experience to become a competent bookkeeper.

Typewriting. ($\frac{1}{2}$ -1).—The student should have a complete mastery of the keyboard by the "touch method." The minimum speed at the end of a year should be at least 40 words a minute. Thorough training should also be given in the care of the machine, in modern methods of manifolded, and in filing papers. One unit will be allowed for five periods of 90 minutes each week for 36 weeks.

Stenography. (1-2).—The student should have a thorough knowledge of the fundamental principles of the system of shorthand studied, the word-signs and contractions, and the elements of phrasing. The minimum speed at the end of the first year should be 65 words per minute on correspondence dictation, and 55 words per minute on general matter. Accuracy in reading shorthand notes is essential. To receive full credit at least two of the five periods each week must be double periods of 90 minutes each.

Fine Arts

Music. ($\frac{1}{2}$ -2).—Credit will be granted in music to students from class A high schools and from high schools whose music instructors are licensed, and whose courses are outlined by the State Music Teachers' Association. A year's work shall count as one-half unit, that is, a maximum of two entrance units shall be granted to students taking four years' work in music in the high school.

Art and Drawing. ($\frac{1}{2}$ -2).—One unit will be allowed for five periods of 90 minutes each a week for 36 weeks.

Home Economics

Foods. ($\frac{1}{2}$ -3).—Should include the study of food stuffs and the principles of cooking; the preparation and service of meals; the proper food for children, adults, aged, and sick; cost of food; care of the food in the home. Laboratory and recitations.

Clothing. ($\frac{1}{2}$ -3).—Types of materials best suited to articles or garments being made; skill in the different sewing processes, construction of garments and dresses; renovation of materials; cost of clothing; hygiene of dress; millinery.

Home Making. ($\frac{1}{2}$ -1 $\frac{1}{2}$).—Care and sanitation of the home, house planning, furnishing, home management, home care of the sick, care of children.

Five periods—90 minutes each—36 weeks, count for one unit.

Manual Training

Shop Work. ($\frac{1}{2}$ -4).—Credits will be allowed as follows: Two units in joinery, wood turning, and cabinet making; $\frac{1}{2}$ unit in pattern making; $\frac{1}{2}$ unit forging; $\frac{1}{2}$ unit foundry; $\frac{1}{2}$ to 2 units machine shop; $\frac{1}{2}$ to 2 units printing; $\frac{1}{2}$ unit for sheet metal work; $\frac{1}{2}$ unit for electric wiring; 1 to 2 units for auto shop work.

Mechanical Drawing. ($\frac{1}{2}$ -4).— $\frac{1}{2}$ to 2 units will be allowed for mechanical drawing; $\frac{1}{2}$ to 2 units for machine drawing; $\frac{1}{2}$ to 2 units for architectural drawing; $\frac{1}{2}$ to 2 units for sheet metal drawing.

Five periods—90 minutes each—36 weeks, count for one unit.

Normal Training Subjects

Psychology. ($\frac{1}{2}$ -1).—The chief emphasis should be upon instinctive tendencies, habit formation, memory, association, economy of learning, the affective life, and the thought processes. Both general and educational psychology, forming the basis of the specific courses in educational theory and practice, should be stressed. The course should be based on some standard text, correlated with supplementary readings.

Classroom Management. ($\frac{1}{2}$ -1).—A discussion of classroom organization, classroom routine, the daily program, etc., should be followed by an analysis of the principal types of teaching, technique of instruction, assignments, teaching how to study, and the art of questioning. Standard text, together with abundant supplementary material, should be mastered.

Special Methods, Observation, and Practice. ($\frac{1}{2}$ -1).—Practice teaching should be preceded by systematic observation of classroom work. During the term in which the student undertakes practice teaching, it should be the dominating feature of the student's work. For the work in special methods some standard text should be studied.

LIST OF ACCREDITED HIGH SCHOOLS OF ARKANSAS

(Correct to January 1, 1925. Another revision of these lists is made in June. All of these schools are fully accredited four-year high schools. The class A list includes all schools accredited by the North Central Association of Colleges and Secondary Schools.)

CLASS A SCHOOLS

Arkadelphia—	DeWitt
Public School	Earle
Henderson-Brown College	El Dorado
(Prep. Dept.)	Eudora
Augusta	Fayetteville—
Batesville—	Public High School
Public High School	University High School
Arkansas College (Prep.	Fordyce
Dept.)	Forrest City
Bentonville	Fort Smith
Blytheville	Helena
Brinkley	Hope
Camden	Hot Springs
Clarksville—	Jonesboro
College of Ozarks (Prep.	Lake Village
Dept.)	Little Rock—
Conway—	Public High School
Central College (Prep.	Mt. St. Mary's Academy
Dept.)	Lonoke
Crossett	Magnolia
Dermott	Marianna

Monticello—	Prescott
Public High School	Rogers
State Agricultural College	Searcy—
Morrilton—	Public High School
Public High School	Galloway College (Prep.
Harding College (Prep.	Dept.)
Dept.)	Siloam Springs
Mountain Home—	Stuttgart
Mt. Home College (Prep.	Subiaco—
Dept.)	Subiaco College
Nashville	(Prep. Dept.)
Newport	Texarkana
North Little Rock	Van Buren
Osceola	Walnut Ridge
Ozark	Warren
Paragould	West Helena
Paris	Wilson
Pine Bluff	Wynne

CLASS B SCHOOLS

Alma	Gurdon
Arkansas City	Hamburg
Ashdown	Harrisburg
Atkins	Harrison
Bauxite	Hartford
Bearden	Hatfield
Benton	Heber Springs
Booneville	Humphrey
Cabot	Huttig
Carlisle	Imboden—
Charleston	Sloan Hendrix Academy
Clarendon	Junction City
Clarksville	Leslie
Conway	Lewisville
Corning	Lockesburg
Cotton Plant	Luxora
Crawfordsville	McGehee
Dardanelle	Malvern
De Queen	Mammoth Spring
Des Arc	Mansfield
De Valls Bluff	Marked Tree
Dierks	Marion
Dumas	Marshall
England (Morris High School)	Maynard—
Eureka Springs	Maynard Academy
Foreman	Mena
Fouke	Moro
Gentry	Parkin
Gillett	Piggott
Gravette	

Pine Bluff—

Annunciation Academy

Watson Chapel

Pocahontas

Portland

Prairie Grove

Ratcliff

Rector

Rison

Roe

Russellville

Siloam Springs—

John E. Brown College

(Prep. Dept.)

Springdale

Stamps

Stephens

Tyronza

Waldo

Waldron

Wilmar

Womble

Caddo Valley Academy

ADMISSION AS A SPECIAL STUDENT

The dean of the college may, at his discretion, permit a student who has presented 15 entrance units, to classify as a special student.

A person of mature age, who is not a candidate for a degree, and who does not present the number of units necessary for entrance, may, under certain conditions, be admitted as a special student. Application for admission to the University by this method should be made to the University Examiner. The minimum age limit upon which any person will be permitted to enroll as a special student without presentation of entrance units is 21 years, except in the trade courses in the College of Engineering, and in the short course in the College of Agriculture, where it is 16.

Special students are subject to the same regulations as other undergraduate students. They may become candidates for a degree by complying with the necessary regulations. No person will be permitted to register as a special student for more than one year without the permission of the dean of the college concerned. Admission as a special student does not exempt the student from Military Art in the case of men students, or from Physical Education in the case of women students.

Special Law Students. Persons 25 years of age or over who have less than the academic credit required of candidates for the law degree, and who do not wish to become candidates for the degree, may make written application to the University Examiner for admission as special students. The number of such students is carefully restricted.

ADMISSION TO ADVANCED STANDING

Students presenting transcripts of credit from institutions of recognized standing may receive credit without discount to the extent that the subjects offered for advanced standing may be counted in fulfilling the requirements for a degree in the University of Arkansas. In no case may an undergraduate student receive credit for more than three full years' work. The Univer-

sity reserves the right to revise or cancel an account of advanced standing after a student has been in residence.

Transcripts of credits from institutions not of recognized standing may be dealt with in one of two ways, at the discretion of the University Examiner. (1) A student presenting a transcript may be given a certain amount of provisional credit which he may hold free from qualifications, after he has completed in the University of Arkansas further work in those subjects for which he is asking advanced credit. (2) Such a transcript may be refused altogether, in which case the transcript is held merely as evidence that the student has studied the subject, and is entitled to make application for an examination for advanced standing. No student will be admitted to examination for advanced standing in any subject unless he can present documentary evidence that he has at some time studied that subject. An application for advanced standing by examination must be made within six weeks after the student first enters the University.

All transcripts of credits should be sent to the University Examiner before the opening of the term in which the student expects to enter, or should be presented to the Examiner immediately upon the student's arrival.

Only officially signed transcripts will be accepted for evaluation. They should include a complete record of the courses pursued, with the number of weeks and hours a week spent upon each subject. If occasion arises, the Examiner may have the right to demand that a catalog of the years covered by the transcript be also presented.

ADMISSION TO GRADUATE STANDING

Regulations governing this subject are laid down in this catalog under the heading "Graduate Work and Advanced Degrees."

FEES AND EXPENSES

BENEFICIARY APPOINTMENTS

Free tuition is granted, under a state law, to 1,000 students residing within the state. The appointments are apportioned to the various counties according to population, and are obtained from the county judge. Those who are unable to obtain appointments from the county judge may receive them from the President of the University until the number of 1,000 is reached.

FEES

All fees must be paid in advance to the Treasurer at the beginning of each term. No student will be allowed to attend classes until his fees are paid.

Matriculation, registration and library fees (paid by all students) each term.....	\$ 5.00
Student health service and student activities fees (paid by all students) each term.....	5.00
Tuition fee (paid by all non-resident students and by others who do not hold beneficiary appointments) each term	10.00
Law tuition fee (paid by all students taking any law course), \$200 per credit hour up to a maximum per term of.....	20.00
Diploma fee (payable at graduation).....	10.00
Certificate fee (payable at graduation).....	5.00

A fee of one dollar will be charged to students entering late, for each day beyond the close of registration, but not to exceed a maximum of five dollars. This fee will not be charged against new students.

A laboratory fee is required of all students pursuing laboratory courses. Students who break or destroy apparatus or equipment in the laboratories will be required to pay the cost of it.

The amounts of laboratory fees, fee for music, etc., are given under the proper courses.

EXPENSES

The following estimates, based upon data secured from students recently in attendance, will give some idea of the cost of attending the University for a year, although it should be realized that some few courses entail additional expense which will raise these averages:

	Low	Moderate	Liberal
Board, laundry, heat, and light.....	\$245	\$300	\$360
Books, instruments, and other supplies	20	30	40
Other expenses	25	35	60

Matriculation fee and student activities

fee.....	30	30	30
	<u>\$320</u>	<u>\$395</u>	<u>\$490</u>

BOARD AND ROOM

The men's dormitories provide accommodation for about one hundred and fifty students. The rooms are furnished with beds, springs, mattresses, chairs, and tables. A charge of one dollar a month from September to June, inclusive, for each occupant, is made. The recreation rooms and parlors in Hill Hall have been reconstructed, refurnished, and made very attractive. Board, heat, light, laundry, water, and janitor service are provided at cost, which is from \$26 to \$30 a month.

The women's dormitory provides accommodation for about one hundred and twenty students. For rooms, furnished except for linen, towels, and bedding, a charge of one dollar a month from September to June, inclusive, for each occupant is made. The cost of board, including light, water, heat, and janitor service, is from \$26 to \$30 a month.

Reservations for rooms in any of the dormitories may be made by application either to the Treasurer of the University, or to the matrons of the dormitories. In order to hold a room, however, it will be necessary for the applicant to deposit a fee of \$5 with the Treasurer of the University on or before September 1. The reservation fee will be credited to the student on his room rent. Room reservation fees deposited before the first of September are returnable, before that date. After September 1 the fee is not returnable.

Lodging in private homes near the University may also be had at reasonable rates. Boarding places, other than the dormitories, must be selected from a list approved by the University authorities, and may not be changed except by the consent of the Dean of Women, or of the Dean of Men.

OPPORTUNITY FOR SELF SUPPORT

A good many of the students in the University are earning some part of their expenses by assisting in the dormitory dining-rooms and University offices, or doing work for townspeople. A large number secure employment through the assistance of the Y. M. C. A. or Y. W. C. A. Every effort is made to secure employment for students desiring work. A student should, however, ordinarily be able to bring with him or to secure during the year at least \$150.

ALUMNI STUDENT LOAN FUND

At a meeting of the Alumni Association held in June, 1922, the semi-centennial fund was established. Part of this fund is known as the Alumni Student Loan Fund, which is to be used

for the benefit of students who need financial assistance to continue their University course. This fund is administered by a committee of the University Senate. In making loans, preference is given to students belonging to the upper classes of the University. The amount loaned to any one student is limited to his actual needs. Applications for loans should be made to Dean G. E. Ripley.

A. F. W. C. STUDENT LOAN FUND

The Arkansas Federation of Women's Clubs has established a loan fund for worthy students whereby young men and women can obtain financial assistance to continue their education. Further information may be had by writing to Mrs. A. Marinoni, Chairman, Fayetteville, Arkansas.

HONORS, SCHOLARSHIPS AND PRIZES

SCHOLARSHIPS

Women's Clubs Scholarships. The Federation of Women's Clubs of Arkansas offers two annual scholarships, one for men and one for women. Competitive examinations are held in June by the county examiner or county superintendent under the direction of University authorities. Persons who wish to take the examination should notify the University Examiner before May 1. Graduates of the high schools of Little Rock, Fort Smith, Helena, Texarkana, Pine Bluff, and Hot Springs are not eligible. The scholarships pay approximately \$150 each.

Daughters of the Confederacy Scholarships. The Daughters of the Confederacy of Arkansas have provided one scholarship.

University Scholarships. The Board of Trustees has provided one scholarship annually to be awarded to the honor graduate of each fully accredited public high school within the state. In case a particular high school does not select any member of the graduating class as the honor graduate, the scholarship shall be awarded to the student who has made the highest average in his studies for the entire high school course. The scholarship grants exemption from the payment of matriculation, student activities, and library fees.

Departmental Scholarships, about six in number, and paying approximately \$250 a year, will be awarded each year to graduate students. These scholarships are open to graduates of the University of Arkansas and of other institutions. In return for the stipend received the student will be expected to give a reasonable amount of assistance in the work of the department. Students desiring to apply for these scholarships should make application to the head of the department having charge of the field of work in which the student wishes to specialize.

HONORS

By a system of departmental, class, and graduation honors, the University gives official recognition of attainments in scholarship.

Departmental Honors. To be eligible for departmental honors, a student must have passed in at least 27 term hours in the particular department with a grade of A. From the students who are eligible for honors in a department, the teaching force of that department will select the first and second. As a basis for this selection, all of the work done in the department, and general class standing, if necessary, will be considered.

Class Honors. Any student who passes in at least 24 hours of collegiate work, receives a grade of A in not less than 18 hours, and ranks not less than C in any course, will receive class honors.

Honors at Graduation. Any student who makes class honors in both his junior and senior years will be termed an honor graduate.

All honors are published at commencement, and in the catalog for the following year.

All students who are honor graduates have the fact noted in their diplomas.

PRIZES

William Jennings Bryan Prize. The Hon. William Jennings Bryan has given to the University the sum of \$250, the interest on which is offered annually as a prize for the best essay on some topic relating to the problems of government. The contest is open to juniors and seniors. Further information may be obtained from the professor of economics and sociology.

Troy W. and Jessie Lewis Economics Essay Prize. Mr. Troy W. Lewis, of Little Rock, offers annually a prize of \$10 to that member of the senior class who writes and submits the best essay on some economic subject. Further information may be obtained from the secretary to the president of the University.

Judd Prize. Mr. Lloyd Judd, of Little Rock, offers an annual prize of \$20 for excellence in public speaking. The award is made on the basis of the best class record in extemporaneous speaking (Public Speaking 533).

Chi Omega Prize. The Chi Omega sorority offers at each institution at which it has a chapter an annual prize of \$15 for the best essay on some topic connected with the study of sociology. The contest is open to all women of the University who are pursuing courses in economics or sociology.

Brough Debating Prize. Ex-Governor Charles Hillman Brough, formerly head of the Department of Economics and Sociology at the University, offers annually a prize of \$10 to the best individual debater participating in intercollegiate debate.

Engineers' Prizes. The Arkansas Chapter of the American

Association of Engineers offers annually two prizes as follows: A prize of \$20 will be given each year for the best thesis on an Engineering subject written by an electrical, mechanical, or civil engineering student. Copies of the completed thesis are to be forwarded to the Secretary of this Association at Little Rock, Arkansas. A prize of \$10 will be given each year to any engineering student who wins first place honors in an oratorical contest upon a subject or subjects, foreign to engineering work.

Science Club Prize. The Science Club of the University offers a prize of a medal, or of scientific books or apparatus of like value, to a member of the senior class upon the basis of his grades in science courses pursued in residence at the University up to the beginning of the last term of his senior year.

ORGANIZATIONS AND ACTIVITIES

CONVOCATION

Convocation exercises for the faculty and students are held in the auditorium on the first floor of University Hall at the call of the President. The programs consist of addresses and lectures by men in public life, discussions of University affairs and problems, and musical numbers. Attendance at convocation exercises is required of all freshmen and sophomores.

CHRISTIAN ASSOCIATIONS

The Christian Associations stand for spiritual, mental, social, and physical development. Their mission is to befriend and inspire the students, and to train them for religious, as well as business, social, and intellectual leadership after leaving the University. Each association employs a general secretary who gives full time to the work.

The Y. M. C. A. holds religious meetings every Thursday evening, and Gospel teams are sent out on many Sunday afternoons to hold services at nearby country churches. A strong Friendship Council is another part of the work. A number of delegates go to the Student conferences, held each summer at Hollister, Mo.

The Y. W. C. A. has an office in University Hall, fitted in a home-like manner, and open at all times to the women students. Weekly vesper services are held on Thursday evening in the Y. W. C. A. room at Carnail Hall, and Sunday morning matins are observed. At the beginning of the year the Big Sister work helps freshmen in getting adjusted to their new environment. The Freshman Commission selects and trains outstanding freshman girls for leadership in Christian work. A Girl Reserve Club in the University High School is sponsored

by the Y. W. C. A. Discussion groups throughout the year consider campus problems and issues of the day. National Week of Prayer and other national programs are observed. Delegates are sent to the annual summer conferences of the Y. W. C. A. at Estes Park, and to the National Biennial Conventions. The University Y. W. C. A. helps to support a secretary in Shanghai, China.

Much of the work of the Associations is carried on jointly. A mission Sunday School in a suburb of Fayetteville is directed by students, and during the year numerous social functions are given. Both Associations have Bible discussion groups led by faculty members and students. Special emphasis is put on World Fellowship work. A Service Band composed of Student Volunteers and of members of the Fellowship for Christian Life Service has been organized.

The social life of the University is much helped by the Associations, which give a reception at the beginning of the year, in honor of the new faculty members and students. Hallowe'en, Valentine, and other socials, are given.

Speakers of national and international reputation are brought to the University under Association auspices, and strong emphasis is placed on Christian life-work. No other organizations on the campus have so large a field of usefulness or so unifying an influence. Their fundamental purpose is to bring the Christian Way of Life into all student relationships and to send students of the University of Arkansas into the world better prepared to inculcate Christian principles into matters political, social, and economic.

DEBATE

The University holds annual debates with other collegiate institutions. Each member of the intercollegiate debating team is allowed four term hours of credit toward a degree (see Public Speaking 540).

ATHLETICS

The Athletic Board of Control, composed of four members of the faculty and three students, has general charge of athletics. The Director of Athletics, assisted by special coaches for football and baseball, has the immediate supervision of all athletic activities for men students. The Professor of Physical Education for Women supervises athletics for women.

The University is a member of the Southwest Intercollegiate Athletic Conference, and as such is governed by the rules of the Conference in all intercollegiate athletic contests. Some of the more important rules of eligibility are:

1. No student shall participate in any intercollegiate athletics until one year from the date of his registration in the institution which he represents, except as a member of the freshman team. The University provides for the coaching of a freshman squad

and arranges a schedule of games for the freshman football team.

2. No person not an amateur shall be allowed to represent any member of the Conference in any athletic contest.

3. A student transferring from one institution of collegiate rank to another shall not be eligible to compete in intercollegiate athletics until he has been a student for one year in the institution to which he transfers.

4. No person shall be permitted to participate in intercollegiate athletics who is not a student in good and regular standing, who is not taking at least the minimum amount of work prescribed in the regular course of study in his institution, and who is not making a passing grade in at least two-thirds of the normal amount of work prescribed.

5. No student shall be eligible to compete in intercollegiate athletics, who, during his last semester in attendance, failed to pass two-thirds of the normal work for his course.

6. If a man be dropped from an institution of the Conference on account of scholastic deficiency, he shall not be eligible to compete in athletics until he shall have completed one full year's work, passing two-thirds of the work taken.

UNIVERSITY ORGANIZATIONS

The *American Institute of Electrical Engineers*, local branch, meets weekly for the presentation of original papers and discussion of professional topics. All students interested in electrical engineering are eligible to membership.

The *American Association of Engineers*, local chapter, meets monthly. Its purpose is to promote the interests of the engineering profession, to make it more useful in public affairs, and to aid its members in securing employment.

The *University Society of Civil Engineers* meets weekly for the presentation of original papers and the discussion of current technical literature.

The *American Society of Mechanical Engineers*, local section, meets bi-weekly for the presentation of original papers and discussion of professional topics. Occasionally a lecture by some prominent engineer takes the place of the regular program.

The *Agricultural Club* meets weekly to discuss topics of practical and theoretical interest to students of agriculture and current topics of general interest. Occasional lectures by experts in agriculture take the place of the regular programs.

The *Education Club* meets bi-weekly for the discussion of problems of educational research being conducted by the more advanced students of the group, and the presentation by them, and by faculty members and invited guests of prominence in the field of education, of modern discoveries and methods.

The *Home Economics Club* is an organization of students who desire to promote the standards and ideals of home economics.

and who wish to create a basis for wholesome social development.

The *Women's Athletic Association* has for its aim the physical development of all women students, and co-operates with the Athletic Board of Control for the advancement of all athletics in the University. It is affiliated with the National Athletic Conference of American College Women. The head of the women's department of physical education is an ex-officio member of the association, and supervises its activities.

The *Pre-Medical Club* is composed of students who are planning to take up the study of medicine. The object of the club is to give these students an opportunity of hearing lectures on medical subjects.

The *Math Club* meets bi-weekly for programs of talks and papers on topics of interest in mathematics.

The *University Orchestra* meets weekly for ensemble playing of lighter music and of standard overtures. Membership is competitive.

The *University Band* plays weekly and takes part in all outdoor functions, parades, etc., in the University. Membership is competitive.

The *Press Club* is an organization of advanced men students in journalism, which meets fortnightly for the discussion of current newspaper problems.

The *Writers Club* is composed of ten junior and senior men who have been recommended by the English department. Original work is read and discussed on Tuesday of each week.

Gamma Chi is a chemical professional local fraternity open to students majoring in chemistry or chemical engineering. Meetings are held the second Thursday of every month.

The *Marble Arch* is a society intended to honor young men who have achieved distinction in University life, and to afford them opportunity for free discussion of local and general problems.

The *Black Friars* meets bi-weekly for the study of plays, classic and current, and for general information in matters pertaining to the drama and to the theater. Membership in the society is limited to 25.

The *Men's Glee Club* is open to all men students. Membership is determined by competition. A trip is taken in the state every spring.

The *Women's Glee Club* is open to all women in the institution, upon a competitive basis. Several concerts are given during the year.

HONOR SOCIETIES

Tau Beta Pi is open to engineering students. The object of the organization is to encourage scholarship and to foster liberal culture among engineering students. Eligibility to membership is based upon high scholarship and character.

Skull and Torch is open to juniors and seniors in the College of Arts and Sciences and the College of Education who are candidates for a degree. Eligibility to membership is based upon high scholarship and personal character.

Alpha Zeta is open to upperclassmen in the College of Agriculture. Eligibility to membership is based upon high scholarship and character.

Pi Kappa is an honorary local sorority for young women interested in journalism. Election to Pi Kappa comes as a reward for consistent and efficient work on University publications.

Tau Kappa Alpha is open to intercollegiate orators and debaters. The aim of the organization is to encourage and reward meritorious effort in public speaking.

Phi Alpha Theta is an honorary historical society based on interest and achievement in its chosen field.

Scabbard and Blade is open to cadet officers. Eligibility to membership is based upon efficiency, personal character and influence, and interest in military affairs.

Lambda Tau is a women's honorary literary organization for the purpose of "creating and fostering a greater interest in literary activity by associating together girls who are definitely interested in literary work and by giving recognition to girls who have shown some ability along this line, to encourage further literary endeavor." Two women members of the English faculty act as sponsors for the organization.

ALUMNI ASSOCIATION

The Alumni Association of the University of Arkansas recently adopted a new constitution which extended its membership to include all former students in good standing who were regularly enrolled in the University for one year. The Association meets annually on Monday of commencement week.

The Association publishes monthly the *Arkansas Alumnus*, which carries news items about former students and also reports the progress of the University. Dr. A. M. Harding, '04, Director of General Extension, is serving as General Secretary. Mrs. Zillah Cross Peel, Ex. '91, is Associate Secretary.

The expense of the alumni office is taken care of largely by the University. It is hoped that this expense will gradually be assumed by the Alumni Association.

STUDENT PUBLICATIONS

The Arkansas Traveler, published weekly by student editors, is devoted to current news and matters of interest to the University as a whole.

The Razorback is published annually by the junior class. It contains pictures of individuals, classes, and organizations and serves as a history of the school year.

The Arkansas Engineer is issued quarterly by the students of the College of Engineering.

The Arkansas Agriculturist is published monthly during the school year by the students of the College of Agriculture.

RULES AND REGULATIONS

Each student at the time of registration is given a copy of the rules and regulations for undergraduate students, for the observance of which he will be held strictly responsible.

STUDENT HEALTH SERVICE

A free medical service is maintained for students, by the University, with the following privileges:

1. A thorough physical examination by the University Physician at first entrance (required). Other examinations will be given later if necessary.

2. Consultation with the University Physician during office hours at the University.

3. Necessary calls by the University Physician at the student's home, and all visits that may be necessary while the student is confined in a hospital.

4. Board, lodging and nursing at University hospital, in case of necessity, not to exceed 21 days in any one college year. In the event of an epidemic or an unusual amount of sickness, the limit may be reduced. In case of necessity the limit may be extended. Any reduction or extension will be made only upon the recommendation of the University Physician with the approval of the President of the University. These provisions apply only for the relief of acute conditions. They include the services of a nurse or nurses regularly employed by the University, but do not include the employment of special nurses. These, if called in, must be paid by the student. In case the University hospital is filled to capacity, the University is not under obligation to provide hospital service elsewhere free of cost.

5. The ambulance or carriage required to convey a student to the hospital.

6. Minor surgical operations for the relief of acute conditions, such as cuts, sprains, and simple fractures.

No student is required to patronize the University Physician. At his own expense any student may employ any other physician he desires. Consultation fees of other physicians whom the student may call in to act with the University Physician must be paid by the student. A student may employ another physician than the University Physician and still be entitled to the benefits of provisions 4 and 5 above, provided that no account shall be entered against this department except by permission of the University Physician.

Vaccination against smallpox will be performed by the University Physician free of charge. Other vaccination will be performed at the cost of materials used.

Medicines will be paid for by the student.

The provisions of the Student Health Service do not extend to chronic cases or to diseases which are the result of the student's own misconduct.

DISCIPLINE AND ATTENDANCE

Students are required to be diligent in the pursuit of their studies and regular in their attendance at class. Those who fail to meet these requirements will be requested to withdraw.

Students are required to attend all meetings and examinations of courses for which they are registered. For each 11 credit hour absences the student will be required to complete one extra hour for graduation.

Absences with athletic teams, debating teams, or other organizations which leave the University on official work and absences of individuals who are permitted by the President to leave the University on official business pertaining to the University, or some organization thereof, are counted at half rate, provided the coach, manager, or other person in charge, files with the Registrar, before leaving the University, a certificate, upon a form prescribed by the University, for each student who proposes to make the trip.

Absences due to sickness of the student, or of a member of his immediate family, or to death in the student's immediate family, count at half rate, provided the student files in the office of the Registrar, not later than one week after his return to classes, upon a form prescribed by the University, a statement of the cause of his absence verified by the certificate of the attending physician. Such certificate forms may be obtained from the office of the Registrar.

Students incurring absences in accordance with the above regulations may have the privilege of making up the lost recitations, as evidenced by turning in written work, or in some other manner satisfactory to the instructor concerned. When such lost recitations have been made up, the remaining absences are removed. Applications for the privilege of making up absences must be made to the Registrar *within one week* from the time of return to the University.

Each absence on the first day of any term or on the day preceding or following any holiday, counts as four, unless the student files with the Registrar a statement showing that such absence was caused by illness, death in the family, or some other cause which the Registrar may deem adequate.

The Registrar will, at any time he may deem advisable, report to the Dean of Men or Dean of Women any student who absents himself from his University duties without good reason.

A student who is absent from an examination must explain

his absence to the University Examiner within a time set by the Examiner. Failing to do so, he will be given a grade of F in the course.

In accordance with state law, all students, members of the faculty, and employees of the University, are required to present certificates of successful vaccination. Students who fail to present certificates will not be allowed to attend classes.

REGISTRATION

Students are required to matriculate and classify before the beginning of each term. Those who enter a course late will be held accountable for all work of the course previous to their entrance.

STUDENT EVENTS

Permanent dates have been established for the following annual events:

Engineers' Day the second Wednesday in April
 Agri. Day the last Wednesday in April
 Junior-Senior Day the second Wednesday in May

STUDENTS' WORK

A student in his first term at the University, unless he is registered in a class higher than the freshman, is not permitted to carry a greater number of hours than the normal number required in his course, provided that the dean of the college concerned may at his discretion allow such student to carry one hour more than the maximum prescribed. Students who have done work of an exceptionally high grade in the high school may be exempted from the operation of this rule by permission of the dean of the college concerned.

A student who has failed in any subject (not including physical education and military art) in any term will not be allowed the next following term to carry more than the normal number of hours required in his course.

The dean of the college in which a student is enrolled may, at his discretion, limit the number of hours that the student will be allowed to carry.

A student may enroll in two classes when a conflict occurs only by permission of the dean of the college and of the heads of the departments concerned. In no such case will a student be allowed to lose more than one-third of the time devoted to recitation in either class. The student will be charged with all absences incurred through such conflict.

COURSE SYMBOLS

The numbers of the regular college courses contain three digits: the first indicates the college year, the second the number of hours of credit a week; the third the particular course.

- 101 to 199—Courses which are open to freshmen.
 201 to 299—Courses which are required of sophomores in one or more of the colleges, or elective for sophomores, juniors, or seniors.
 301 to 399—Courses which are required of juniors in one or more of the colleges, or elective for juniors and seniors.
 401 to 499—Courses which are required of seniors in one or more of the colleges, or elective for seniors.
 501 up —Open electives for sophomores, juniors, and seniors.

Courses with double or triple numbers, in parentheses, like English 131 (132) (133), run through two or three terms, respectively, and, except with the professor's consent, credit will not be allowed until the final term's work is completed. If the numbers are not in parentheses, credit will be allowed for a single term's work.

No student may enroll in a course until he has successfully completed all prerequisites to that course.

CREDIT HOURS

The number of term credit hours allowed in each course is identical with the number of hours a week spent upon that course except that in the laboratory, shop, or field work two to three hours will be considered equivalent to one hour of lecture or recitation.

GRADING AND EXAMINATIONS

The following grading system is in effect: A, B, C, D (passing grades), E (conditional failure), F (absolute failure). A student receiving a grade of E may remove it by an examination. A student receiving a grade of F will not receive credit for the course except by repeating it in class. A student receiving a grade of D in any subject will have an opportunity to raise this grade by passing an examination. Should he elect to take such examination, the grade made upon the examination will become a part of his permanent record in place of the first grade made.

Examinations to raise the grade D or to remove the grade E will be given on Monday and Tuesday of registration week in the student's next succeeding college year. In the case of candidates for degrees or certificates a re-examination either to remove the grade E or to raise the grade D made in the final year, may be given in the same year prior to commencement at a time set by the Examiner.

Seniors applying for graduation and carrying the requisite work to entitle them to graduation, may, upon the recommendation of the instructors concerned, be excused from final examinations in each course in which their grade is as high as B. This provision does not apply to any law courses.

If for any reason a student drops a course after the sixth week of the term, and if the student's work during the time that he attended the course was below the grade of D, there will be entered on his record a grade of F in that course; if D or above, he will be marked "Excused" in that course.

The grading system in the University of Arkansas is based not on the individual instructor's idea of what constitutes a high grade or a low grade, but on *relative rank in classes*.

By the system of grading it is proposed to divide the students into three large groups, according to achievement. The first of these is the superior group, which contains approximately one-fourth of all the students in the University. To these are given the grades A and B, the A group representing a relatively small number of unusually excellent students.

The second is the average or median group, which comprises about one-half of all the students. These are given the C grade.

The third group comprises that quarter of the students whose work is inferior to that of the other three-fourths. To these are given the D, E, and F grades.

It is understood that, in classes containing small numbers of students, no instructor can fully carry out this distribution of grades. It is the expectation, however, that unless the classes of any instructor, by reason of sectionizing on the basis of ability, regularly include unusual numbers of good students, or of inferior students, as the case may be, his grades will, over a period of years, conform approximately to the scale:

- A, not more than ten per cent;
- B, not more than twenty per cent;
- C, from forty to fifty per cent;
- D, approximately twenty per cent;
- E and F combined, not more than ten per cent.

REQUIREMENTS FOR GRADUATION

The College of Arts and Sciences and the College of Education are the only divisions of the University in which a student may be graduated who has a failing grade on his record which has not been removed by satisfactory repetition of the class-work or by examination, or excused by the faculty of the college concerned.

No student will be allowed to graduate from any division of the University if more than 25 per cent of his grades in all courses presented to meet the requirements for his degree are D.

In addition to completing the prescribed course of study, candidates for a degree are required to do at least the work of the senior year in residence.

According to a state law, no degree will be granted to any student who has not passed a one-year course in American history and civil government, either in high school or in college.

This does not apply to students enrolled prior to September 1, 1922.

GRADUATE WORK AND ADVANCED DEGREES

All work for higher degrees is placed under the administrative supervision of the Senate Committee on Graduate Study, which consists of members of the University Senate appointed by the President, and of the University Examiner. This Committee retains supervision over the graduate student throughout his course of study, and recommends to the Senate that a higher degree be conferred.

A student seeking admission to graduate standing must have completed an undergraduate course of four years, or its equivalent, at the University of Arkansas, or at some other college or university of equal standing. Such a student should present an official transcript of his complete undergraduate record to the University Examiner, who will present his name to the Committee on Graduate Study with the recommendation that he be admitted to graduate standing, or be not admitted, as his record may seem to justify.

Students who satisfy the Committee, and the department concerned, of their ability to pursue graduate work in a given subject may be enrolled in specific courses without reference to a degree. Admission to graduate standing does not grant admission to candidacy for an advanced degree. Such candidacy is determined by the Committee after the student has demonstrated by at least three months of resident work his ability to pursue studies of graduate character.

The University of Arkansas offers the following advanced degrees: (1) Master of Arts or Master of Science; (2) The professional degree of Chemical, Civil, Electrical, or Mechanical Engineer in the appropriate engineering subject.

THE MASTER'S DEGREE

The degree of Master of Science will be conferred for graduate work of which the major portion has been done in agriculture, education, or home economics. For work in other subjects the degree of Master of Arts will be conferred. Students majoring in natural science may, however, at their option, receive the degree of Master of Science.

The minimum time in which a candidate may be permitted to complete the degree is one academic year. When the Committee deems it necessary, more than one year will be required.

The candidate is required to complete one major subject and not more than two minor subjects. The major subject includes, with the thesis, at least 24 credit hours. The minor subjects occupy together 18 credit hours. The choice of the candidate's major and minor subjects must have the approval of the Com-

mittee and the major professor. The Committee will not accept for graduate credit any course open to Freshmen or Sophomores, or any other course not based on eight or more term hours of prerequisite work. Exception may be made to this rule only if the instructor files with the Committee, in advance, written outlines of additional assignments required of the student, and makes a written report to the Committee, at the conclusion of the course, supplementary to the grade given in this subject.

Forty-two of the 48 hours required of the candidate must be regular class-room work. Candidates who are graduates of this University may, however, pursue one-half of the required work *in absentia*, provided their undergraduate and graduate records are satisfactory to the Committee.

Candidates for the Master's Degree must maintain an average grade of B. No course shall count for graduate credit in which the grade is not at least C.

All candidates for the Master's Degree must submit a thesis showing marked attainment in their chosen major subject. The title of this thesis must be announced to the Committee for approval at least five months before the date at which the degree is expected; and the thesis itself must be presented to the Committee at a date to be set by the professor in charge of the major subject, but not later than 30 days before the date at which the degree is expected. The Chairman of the Committee shall deposit this thesis with the University Librarian for binding in the form prescribed. A fee of \$2 is required to cover the cost of binding this library copy. The minimum amount of credit for the thesis shall be three term hours; the maximum amount, six term hours.

In addition to all regular term examinations on the specific courses pursued, a candidate for a Master's Degree is expected to pass a comprehensive oral examination conducted by the professors in charge of his major and minor subjects, in the presence of an Examining Committee appointed by the Committee on Graduate Study for this purpose. This examination shall cover the candidate's chosen subjects irrespective of the particular courses he may have elected in his undergraduate or graduate career.

THE PROFESSIONAL DEGREE IN ENGINEERING

The professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer, may be granted in one of two ways to students who have completed the appropriate undergraduate course. (1) The student must pursue at least one year of graduate work in residence under conditions outlined above for the Master's Degree; (2) He must have been in successful practice in his profession for at least

three years, two of which must have been done after he received his Bachelor's Degree. He must have been in responsible charge of work for at least one year. He must submit in writing to the Committee a statement of his professional record, and the names of at least three satisfactory references, not later than January 1 of the college year in which he seeks a degree. He must present a thesis under the conditions outlined above for the Master's Degree.

UNIVERSITY AUDITING

The financial accounts of all student organizations handling more than fifty dollars per annum are audited by the chief accountant. A system whereby all checks must be countersigned by this official offers an opportunity for the fullest publicity and develops a sense of financial responsibility in student treasurers. The combined funds draw interest on deposits, which is divided *pro rata* among the organizations.

COLLEGE OF ARTS AND SCIENCES

The object of the courses offered in the College of Arts and Sciences is to cover the broad field of general university study, including ancient and modern languages and literature, history and the social sciences, mathematics, the natural sciences, and the fine arts. It aims to afford the student an opportunity to gain a broad cultural education, as well as to equip himself for further study in more technical fields.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance see previous pages.

GRADE POINTS

Grade points are awarded on the following basis:

For grade A, 6 points for each hour.

For grade B, 4 points for each hour.

For grade C, 2 points for each hour.

For grade D, credit, but no points.

For grade E, 1 negative point for each hour.

For grade F, 2 negative points for each hour.

No change in grade points will be allowed unless the subject be repeated in class.

In case of exemption from final examination, grade points will be granted as for grade of B.

In order to graduate, a student must have an average of two grade points on all the work presented for a degree.

No student will be allowed to graduate from any division of the University if more than 25 percent of his grades in courses presented to meet the requirements for his degree are D.

COURSES OF STUDY

The College of Arts and Sciences offers four-year courses leading to the degree of *bachelor of Arts* (B. A.), *Bachelor of Science* (B. S.), and *Bachelor of Music* (B. M.); a graduate course leading to the degree of *Master of Arts* (M. A.); and special courses in music leading to a diploma.

Candidates for degrees, who wish to teach in the schools of any state which requires professional preparation of its teachers, should take as part of their elective work the courses mentioned by the College of Education. They will then receive both the degree and the teacher's certificate which will entitle them to teach in any school in the state without being required to pass examinations for a teacher's license.

REQUIREMENTS FOR DEGREE *BACHELOR OF ARTS*

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily at least 201 term hours in approved courses, with grade points amounting to 402, to be chosen with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; Military Art (for men), or Physical Education (for women), 6 hours.

2. Elective courses to be chosen from the following groups, with the restrictions noted below:

Group 1: English, French, German, Greek, Italian, Latin, and Spanish.

Group 2: Astronomy, Botany, Chemistry, Geology, Mathematics, Physics, and Zoology.

Group 3: Economics, Education, History, Philosophy, Political Science, Psychology, and Sociology.

Group 4: Agriculture, Engineering, Fine Arts, Law, Medicine, Home Economics, Bible, and Public Speaking.

(a) The candidate may elect not more than 60 hours in any one department, and not more than 120 hours from any one group. At least 27 hours must be elected from group 1, and 54 hours from groups 2 and 3 combined, including not less than 18 hours from each of these two groups (provided these 54 be exclusive of any course or courses offered from another college in the University), and not more than 27 may be elected from group 4.

A committee, consisting of the student's major professor, the dean, and the examiner, is empowered to determine what courses offered from any other college may receive credit toward the degree of Bachelor of Arts. No student may receive credit for a course offered in another college who does not in advance secure permission from this committee to enroll in that course. A maximum of 36 term hours in approved courses may be offered from the College of Education.

(b) No elementary course in science can apply toward requirements of group 2 unless it contains at least 9 term hours.

(c) The candidate must select, not earlier than the beginning of his sophomore year, and not later than the beginning of his junior year, one major subject, to be chosen from group 1, 2, or 3, in which he must complete not less than 45 hours, and two minor subjects, in which he must complete not less than 27 and 18 hours, respectively, subject to the approval of the candidate's major professor and the dean of the college. A description of the major requirements of each department will be found under the departmental statements.

(d) The candidate will be required to complete, in the combined high school and college courses, at least 30 hours of one foreign

language, at least 9 hours of which must be taken in college classes. In computing the total, each unit of high school work will count as equivalent to 6 hours of college work. As an option the language requirement may be satisfied by 21 hours of one language and 12 hours of another language all completed in college. The student must continue his language study until his requirement is satisfied, which, in case of a modern language, means a satisfactory working knowledge of that language.

(e) The candidate must conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, (132) (133).....	3	3	3
Military Art, 111, (112) (113) (or)			
Physical Education 111, 112, 113.....	1	1	1
Elective	12	12	12
	16	16	16

Sophomore Year

Military Art 211, (212) (213) (or)			
Physical Education 211, 212, 213.....	1	1	1
*Elective	16	16	16
	17	17	17

Junior Year

*Elective	17	17	17
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Senior Year

*Elective	17	17	17
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BACHELOR OF SCIENCE

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily at least 201 term hours, in approved courses, with grade points amounting to 402. Certain subjects are required as follows:

English 131 (132) (133)—9 hours.

Military Art (for men) or Physical Education (for women)—6 hours.

Foreign Languages—24 hours in one or two foreign languages, at least 12 hours of which must be taken in college classes. In computing the total, each unit of high school work will count as equivalent to 6 hours of college work. Students will find that German or French is preferable to other languages that might be taken. This language work need not be begun until the junior year.

*Note.—To be chosen with the advice and consent of the candidate's major professor.

Science—111 hours including either of the following groupings:

(a) A major subject of 54 hours and two minor subjects totalling 45 hours; or

(b) A major subject of 45 hours and two minor subjects totalling 54 hours.

By the end of the junior year, at least four general introductory courses of 12 hours each in the sciences must be completed.

Social sciences as listed in group 3 of the B. A. Course—18 hours, of which not more than 9 may be in Education.

BACHELOR OF MUSIC

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily at least 204 term hours, in approved courses, with grade points amounting to 408. The following schedule of courses must be adhered to. Note that majors and minors are to be drawn from practical music—piano, pipe-organ, violin, and voice.

	Hrs. Each Term		Hrs. Each Term
<i>Freshman</i>		<i>Sophomore</i>	
Major Music.....	2	Major Music.....	2
Harmony 1.....	1	Physical Education.....	1
Appreciation 1.....	1	Minor Music.....	2
Public School Music.....	2	Public School Music.....	2
Foreign Language.....	4	Harmony 2.....	1
English.....	3	History of Music.....	1
History.....	3	Foreign Language.....	4
Physical Education.....	1	English.....	4
	17		17

	Hrs. Each Term		Hrs. Each Term
<i>Junior</i>		<i>Senior</i>	
Major Music.....	2	Thesis.....	1
Minor Music.....	2	Recital.....	1
Counterpoint.....	1	Canon and Fugue.....	2
Form and Analysis.....	2	Selection and Interpretation.....	2
Appreciation 2.....	1	Pedagogy (Music).....	2
Ensemble Music.....	2	Major Music.....	2
Electives.....	4	Electives.....	6
Psychology.....	3	Appreciation 3.....	1
	17		17

Choral singing is offered each year during the winter and spring terms as an elective, two hours each week.

SPECIAL COURSES IN THE DEPARTMENT OF MUSIC

The department of Music offers special courses, the completion of which is attested to by a diploma. The purpose of these courses is to give opportunity to persons who do not

desire to become candidates for a degree, but who wish to do special work in music together with a small amount of work in courses of a general cultural nature, in preparation for teaching, or as a basis for further study.

Candidates for a diploma in music must meet the entrance, residence, and registration requirements, and must complete satisfactorily the following courses of study. Students who receive this diploma must show evidence of four years of college training in music.

First Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131 (132) (133).....	3	3	3
Foreign Language.....	3-5	3-5	3-5
History or Economics.....	3-5	3-5	3-5
Theory of Music 111 (112) (113).....	1	1	1
Theory of Music 114 (115) (116).....	1	1	1
Theory of Music 117 (118) (119).....	1	1	1
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 111, 112, 113.....	1	1	1
Psychology 131 (132) (133).....	3	3	3

Second Year

English Literature	3	3	3
Foreign Language.....	3-5	3-5	3-5
Theory of Music 211 (212) (213).....	1	1	1
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 211, 212, 213.....	1	1	1

TEACHER'S CERTIFICATE

Students who desire to combine with their bachelor's degree from the College of Arts and Sciences the teacher's certificate granted by the Office of Education should include General Psychology in the sophomore year, and the following courses in Education:

Sophomore Year

Technique of Instruction.....	3 term hours
Classroom Administration	3 term hours
Principles of Secondary Education.....	3 term hours

Junior Year

Secondary Tests and Measurements.....	3 term hours
Special Methods.....	3 or 6 term hours

*In instrumental and vocal music no definite number of hours can be stated; the applicant must show the attainment of sufficient knowledge, technique, and ability before a diploma will be granted. In general, this will require from four to six years of study. In addition to the study of the major instrument the candidate will be required to spend at least one year in the study of some other instrument, or of voice, subject to the approval of the head of the department.

Senior Year

Practice Teaching.....10 term hours

The minimum amount of credit in Education by which a student in College of Arts and Sciences may obtain the teacher's certificate is 25 hours.

PRE-MEDICAL COURSE

Students who have completed no less than three full years of college work, including the subjects which are required for admission to the Medical College of the University of Arkansas or any standard approved Medical College, may offer the first year's work done at the Medical College to fulfill the requirements of the senior year at the University of Arkansas.

Such students should make application to the dean of the College of Arts and Sciences before April 1 of the year in which the degree is expected. The degree will be conferred upon official advice from the registrar or dean of the Medical College including a transcript of the student's record, or a certificate setting forth the fact that the work completed constitutes a full year's work satisfactorily completed in Medical College.

The subjects included in the curriculum of such student and the electives chosen during the junior year must include subjects in Groups 1, 2, or 3 of the catalog, so selected that the student will be able to enter the particular Medical College of his choice with the necessary prerequisites in every subject, and must aggregate a total of 150 hours.

All standard medical schools now require a minimum of two years of college work for entrance. The curriculum for these first two years is as follows:

Freshman Year

Chemistry	141, 142, 143
German	131, 132, 133
or French	131, 132, 133
Zoology	144, 145, 146
English	131, 132, 133
Military Art.....	111, 112, 113

Sophomore Year

Chemistry	331, 332, 241
German	231, 232, 233
or French	231, 232, 233
Physics.....	141, 142, 143
Military Art.	211, 212, 213
Electives	(6) (6) (6)

Wherever possible it is decidedly preferable for a student to spend three or four years in premedical work at the University. In such cases one of the sciences listed in the sophomore year should be postponed and an elective substituted. For the third

and fourth years further work in the subjects above mentioned, as well as in Latin, Psychology, Mathematics should be taken.

MASTER OF ARTS

Conditions for this degree are outlined on page 50 under the heading "Graduate Work and Advanced Degrees."

DEPARTMENTAL STATEMENTS

For an explanation of the course notation, see page 48.

ANCIENT LANGUAGES

PROFESSOR STRAUSS, ASSOCIATE PROFESSOR REID

Requirements for a Major in Latin or Ancient Languages. Forty-five credit hours. Students who expect to teach Latin in secondary schools should complete course 531 (532) (533) and at least nine hours of more advanced work.

Latin

111 (112). LATIN AND GREEK WORD-ROOTS IN ENGLISH.—Requires no knowledge of the Greek language and but one year of Latin. Gives a working knowledge of the common roots used in the formation of English words, both technical and general. Especially for students of science who do not continue Latin. Winter and spring. STRAUSS.

131 (132) (133). ELEMENTARY LATIN FOR BEGINNERS.—Grammar and exercises. To meet the needs of students in the sciences, and to lay a foundation for those students who intend to continue Latin or the modern languages. Will admit to Latin 231. STRAUSS.

214 (215) (216). ELEMENTARY LATIN COMPOSITION.—Required of all students taking 231 and of those taking 234 who have had no equivalent course. REID.

231 (232) (233). CICERO'S SPEECHES AND LETTERS.—Six speeches, and selections from the letters; a review of forms and syntax; introduction to the use of good English in translation. For students who offer two units of Latin for entrance. See course 214 (215) (216). REID.

234 (235) (236). VIRGIL'S *ÆNEID*.—Due attention is given to forms, syntax, and prosody, but the chief aim is an appreciation of the poem as literature. For students who offer three units of Latin for entrance. See course 214 (215) (216). REID.

511 (512) (513). ADVANCED LATIN COMPOSITION.—Translation of English narrative and study of Latin idioms. Essential to students who are preparing to teach Latin. Prerequisite: Latin 531-533. STRAUSS.

531. CICERO'S ESSAYS.—The *De Amicitia*, with a thorough review of forms and syntax at the beginning. Fall and spring.

532. LIVY.—Selections from Livy, Books XXI-XXII. Fall and winter.

533. LATIN COMEDY.—The Phormio of Terence. Winter and spring.

These courses in any order are open to those who have had four units of Latin, or 234-236. STRAUSS.

537. HISTORY OF ROMAN LITERATURE.—Mackail's Latin Literature, supplemented by lectures and assigned reading in English translations of the more important authors. Winter.

538. GREEK AND ROMAN MYTHOLOGY; ITS USE IN ENGLISH LITERATURE.—A systematic study of the classical myths that underlie all literatures. Each student will trace a particular myth through English literature. Those having a knowledge of Latin will investigate Latin sources. Fall.

539. ROMAN PRIVATE LIFE.—Johnston's Private Life of the Romans. Lectures illustrated by stereopticon and supplemented by collateral reading and reports. Spring. Courses 537, 538, 539 presuppose no knowledge of Latin. STRAUSS.

630. LATE LATIN.—To show close connection between Latin and the Romance languages. Open to students who present two entrance units of Latin and who have not less than the equivalent of a full year in college of one Romance language. STRAUSS.

631. CICERO.—Selections from the Letters. Fall

632. JUVENAL AND MARTIAL.—Juvenal's Satires; Martial's Epigrams. Winter.

633. PLINY.—Selections from the Letters. Spring.

The incidental object of courses 631-633 is to acquaint the student with Roman public and private life. Prerequisite: Latin 531-533. STRAUSS.

634 (635) (636) ROMAN POETRY.—Reading of selections from Roman poets. An attempt made to secure a good general view of the whole field of Roman poetry. Prerequisite: Latin 531-533 (not given in 1925-26). STRAUSS.

Greek

131 (132). ELEMENTARY GREEK.—Assuming a fair knowledge of Latin Grammar, the essentials of Greek form and syntax are covered rapidly, with much illustrative reading and comparatively little drill. For students who offer no Greek for entrance. Fall and winter. STRAUSS.

243. XENOPHON.—Selections from Anabasis, Cyropedia, and Memorabilia; practical review of syntax, some prose composition and sight reading. Prerequisite: Greek 131 (132). Spring. STRAUSS.

533 (534). GREEK LITERATURE IN TRANSLATION.—To give students of any literature a knowledge of the form and content of the literature that has influenced most widely other literatures. In the first quarter epic and lyric poetry will be studied; in the

second, prose and drama. Lectures, class reading, collateral reading, and frequent tests. Winter and spring.

ATHLETICS

PROFESSOR SCHMIDT, MR. CRANGLE, MR. FARRIS

111. FOOTBALL. For freshmen. Ten hours practice a week. Fall. FARRIS.

211. FOOTBALL. University team, first year. Practice, ten hours a week. Fall. SCHMIDT, CRANGLE.

311. FOOTBALL. University team, second year. Practice, ten hours a week. Fall. SCHMIDT, CRANGLE.

114. PHYSICAL TRAINING. Indian clubs, drills, dumbbells, calisthenics, group games. Two hours a week. Fall. SCHMIDT.

112. BASKETBALL. For freshmen. Practice, ten hours a week. Winter. FARRIS.

212. BASKETBALL. University team. Practice, ten hours a week. Winter. SCHMIDT.

113. BASEBALL. For freshmen. Practice, ten hours a week. Spring. FARRIS.

213. BASEBALL. University team. Practice, ten hours a week. Spring. CRANGLE.

313. TRACK. For freshmen. Practice, ten hours a week. Spring. SCHMIDT.

413. TRACK. University team. Practice, ten hours a week. Spring. SCHMIDT.

513. TENNIS. Practice, five hours a week. SCHMIDT.

BIBLE

ASSISTANT PROFESSOR WORKMAN.

The following courses in Bible study are offered by the Wesley Foundation at the University of Arkansas. Their purpose is to enable the student to understand the life, history and literature in the Bible; thereby, to foster an appreciative attitude of mind toward the Bible, to aid intelligent Bible reading, and to inspire a lasting interest and eager desire for a thorough knowledge and radiant personal experience of Bible truth.

In each of these courses The Bible, American Standard Version, is the sole text. This will be supplemented by collateral readings, reports, and lectures.

Denominational and theological quibblings will be meticulously avoided.

The Bible study department has just been established and during the year 1924-25 the only course given is 533 which is offered in the spring term. This course will be repeated in the summer term and other courses will be offered in the summer and next year as indicated.

530. LIFE AND LITERATURE IN THE BIBLE.—A general introductory course covering the whole Bible. The life and work of

the outstanding characters with a review of the various kinds of literature in both the Old and New Testament. Emphasis will be made upon the major prophets, and prophetic and devotional literature in the Old Testament; and upon Jesus and Paul, and the records of their lives and works in the New Testament. Open to freshmen only. (Will be given in the Summer term, open to all students). Fall. WORKMAN.

531. OLD TESTAMENT HISTORY.—A history of the Hebrews from the earliest Biblical records to the time of Christ. Begins with the founding of the nation and continues the historical connection through the exodus, establishment of the monarchy, the exile and return, to the Christian era. The major prophets are briefly studied in their historical environment, as are also the wise men and poets of Israel. Old Testament religion is presented, in the various stages of its historical setting, as the forerunner of the religion of the New Testament. Prerequisite: sophomore standing. Fall. WORKMAN.

532. NEW TESTAMENT HISTORY.—Beginnings of Christianity in the life, death, and resurrection of Jesus the Christ. Growth of the Christian church under the Apostles. Expansion of Christianity as recorded in the Acts of the Apostles and in the letters of Paul. Prerequisite: sophomore standing. Winter. WORKMAN.

533. TEACHING OF JESUS.—The content and significance of the teaching of Jesus. Includes a review of contemporary Jewish beliefs, records of Jesus' teaching, and his teaching methods. Jesus' teaching concerning God, the Christ, man, and religion receive special attention. Prerequisite: sophomore standing. Spring. WORKMAN.

BOTANY

PROFESSOR BUCHHOLZ, ASSISTANT PROFESSOR MOORE, MRS. WARREN

REQUIREMENTS FOR A MAJOR IN BOTANY.—Forty-five credit hours, which should include 141-3, 234-5, or 450, 341, 522 or 523, 534, 545, 556 or 546, and Plant Pathology or Bacteriology 4 hours. Students majoring in Botany who expect to teach are advised to elect some courses in zoology and other related sciences. Certain advanced courses in zoology may be included in the botany major. Some advanced courses are given only in alternate years.

141 (142), 143 GENERAL BOTANY.—The first term's work covers a study of the structure and processes of leaves, stems, and roots, and the relation of plants to their environment. The second term includes studies in reproduction, seeds, fruits, variations, and heredity in plants; a general survey of the great climatic plant formations of North America and their relation to centers of crop distribution; the life processes of bacteria and fungi in relation to decay, nitrogen fixation, diseases, and sanitation; mosses, ferns, and related plants. The third term completes the general survey of the great plant group, the identifi-

cation and classification of the common plants of the region, and the place and importance of crop plants. Lecture and recitations two hours, laboratory or field four hours. Fee \$2.50. **BUCHHOLZ, MOORE, and MRS. WARREN.**

132. **NATURE STUDY: THE LOCAL FLORA.**—Chiefly the identification of trees, shrubs, and wild flowers. Intended for students who have not previously studied the general course. The principal object is to know the common species, how they are identified, and to awaken an interest and appreciation for one's surroundings. Lectures and demonstration two hours, field and laboratory two hours, with field trips to be arranged. Spring. Fee \$1.50. **BUCHHOLZ, MRS. WARREN.**

234, 235. **PLANT PHYSIOLOGY.**—A two term course covering a study of the processes of plants, the influence of external conditions on these processes, and their practical importance. Intended for students who do not have a broad foundation in chemistry, but one year of chemistry is recommended to precede or accompany the course. Prerequisite: 141 (142). Fee \$2.50. **MOORE.**

23. **PLANT ECOLOGY.**—A study of the distribution and successions of plants, the environmental factors influencing these and the practical bearing upon crop centers. Lecture two hours, laboratory or field two hours. Prerequisite: 141 (142), 143. Spring. **MOORE.**

331 (332) or 321 (322) (323). **PLANT MICROTÉCHNIQUE.**—Practice in the various methods of preparing plant material including the making of slides for microscopic examination. Laboratory eight hours (course 331-2), or six hours (course 321-3). Prerequisite: 141-143. Fee, \$4.00. **BUCHHOLZ, MOORE.**

339. **TREES AND SHRUBS.**—The identification and distribution of the native and cultivated species of forest trees and shrubs found in Arkansas and the Southwest. Lectures one hour, field trips and laboratory four hours a week. Fall or spring. **MOORE.**

341. **GENETICS.**—The facts and theories of inheritance. The hypotheses concerned with the problems of evolution. Lectures and recitations three hours, laboratory two hours. Prerequisites: 141-143, or zoology 144-146. Fall and winter. Fee, \$2.50. **BUCHHOLZ.**

450 [formerly 347]. **PLANT PHYSIOLOGY.**—A study of photosynthesis and other syntheses, enzymes, digestion, translocation, accumulation, assimilation, respiration, permeability, diffusion, and movement of materials in plants. Lectures and discussion three hours, laboratory four hours a week. Prerequisites: 141-143 and Chemistry 141-143, (331 or 242). Spring. Fee, \$3.00. **MOORE.**

522. **MORPHOLOGY OF ALGAE.**—A study of the algae with respect to their morphology and evolution, and with emphasis on the fresh water algae. One lecture and three hours laboratory. Prerequisite: 141-143. Spring. Fee, \$1.00. Not given in 1925-26. **BUCHHOLZ.**

523. **MORPHOLOGY OF BRYOPHYTES.**—The liverworts and mosses

are studied in greater detail with reference to the important facts of their general morphology, evolution and classification. Lecture one hour, and laboratory two hours. Winter or spring (Not given in 1924-25.) Fee, \$1.00. BUCHHOLZ.

534. MORPHOLOGY OF PTERIDOPHYTES.—A morphological study of ferns and fern allies with reference to their life histories and the evolution of their vascular structures. Should precede Botany 545. Lectures two hours and laboratory two hours. Prerequisite: 141-143. Fall. Fee, \$1.50. BUCHHOLZ.

545 (or 555). MORPHOLOGY OF SPERMATOPHYTES.—The general details of the morphology of seed plants in relation to their evolutionary history. Special attention is given to the study of Gymnosperms, with additional laboratory assignments for those taking the course for an extra hour's credit. Prerequisite: 534. Winter. Fee, \$2.00. BUCHHOLZ.

556 (or 546). SYSTEMATIC BOTANY.—The identification and classification of wild and cultivated plants in the vicinity of Fayetteville. The field work will include some ecological studies, and the lectures, some correlation of the groups from an evolutionary standpoint. Lecture one hour, laboratory six to eight hours. Field trips afternoons or Saturdays. Prerequisite: 141-143. Spring. Fee, \$2.50. BUCHHOLZ, MOORE.

553. CYTOLOGY.—The cell and the behavior of its component parts during division. The theories attempting to correlate the facts of Mendelian inheritance with cell conditions. Lectures and recitations two hours, laboratory six hours. Prerequisites: 545 and 341. Spring. (Not given 1924-25.) Fee, \$2.50. BUCHHOLZ.

CHEMISTRY

PROFESSOR HALE, ASSOCIATE PROFESSOR WERTHEIM,
ASSISTANT PROFESSOR HUMPHREYS, MR. PORTER.

The courses are planned to meet the needs of students who (1) desire knowledge of the science for its cultural value; (2) need it as a foundation for work in medicine and in other sciences; (3) are majoring in chemistry or chemical engineering.

Requirements for a Major in Chemistry: Forty-five term hours, which should include courses 141 (142) (143), 251, 254 (255), 354 (355).

A course leading to the degree of Bachelor of Chemical Engineering also is offered. (See College of Engineering.)

141 (142) (143). GENERAL CHEMISTRY.—An elementary course with a two-fold object: First, to give the student a thorough general knowledge of the principles of chemistry; second, to make chemistry a subject of interest and value, touching so closely everyday life. Lectures, demonstrations, and recitations three hours, laboratory three hours a week. No prerequisite. Fee, \$4.00 each term. HALE, HUMPHREYS, AND ASSISTANTS.

144 (145). GENERAL CHEMISTRY.—The same as the above course, but adapted to the needs of students offering an admis-

son unit in chemistry. Fall and winter. Fee, \$4.00 each term.

HUMPHREYS AND ASSISTANTS.

257 (258) (259). **GENERAL CHEMISTRY (ENGINEERS)**.—Prerequisite: Physics 149. Fee, \$4.00 each for 257 and 258; \$5.00 for 259. **HALE, HUMPHREYS, AND ASSISTANTS.**

242. **ELEMENTARY ORGANIC CHEMISTRY**.—A brief outline of the important facts of organic chemistry, with their practical application. Designed for students of Agriculture and Home Economics. Suitable for others desiring a cultural course. Lectures and recitations three hours, laboratory three hours a week. Prerequisite: 141-143. Spring. Fee, \$4.00. **WERTHEIM.**

251, 241. **QUALITATIVE ANALYSIS**.—A practical course with lectures and recitations dealing with the theory involved. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 143. Fall and spring. Fee, \$6.00 and \$5.00, respectively. **PORTER.**

232. **ADVANCED QUALITATIVE ANALYSIS**.—Continuation of 251, with lecture and recitation one hour, laboratory six hours a week. Prerequisite: 241. Winter. Fee, \$5.00. **PORTER.**

254, 244. **QUANTITATIVE ANALYSIS**.—The theory and practice of the subject, including the most important gravimetric and volumetric methods. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 241. Fall and winter. Fee, \$6.00 and \$5.00, respectively. **PORTER.**

255, 245. **ADVANCED QUANTITATIVE ANALYSIS**.—Continuation of 244 with smaller hours. Winter and spring. Fee, \$6.00 or \$5.00. **PORTER.**

331 (332). **SEMI-ORGANIC CHEMISTRY**.—A shorter course for pre-medical students. Lectures and recitations two hours, laboratory three hours a week. Prerequisite: 241. Fall and winter. Fee, \$4.00 each term. **WERTHEIM.**

333. **SPECIAL ORGANIC CHEMISTRY**.—The work presented is such that 331, 332, 333 approximately equal 354 (355). Lectures, recitation and fees as in 332. Prerequisite: 332. Spring. **WERTHEIM.**

354 (355). **THEORY OF CHEMISTRY**.—The nature and reactions of the fatty and aromatic compounds are thoroughly studied with the help of the electron theory. Lectures and recitations three hours, laboratory six hours a week. Prerequisite: 241. Fall and winter. Fee, \$5.00 each term. **WERTHEIM.**

359. **INDUSTRIAL CHEMISTRY**.—The practical application of chemistry to industry, special attention being given to actual or possible manufacturing establishments in this state. One or more industrial trips are taken. Lectures and recitations five hours a week. Prerequisites: 254, 354. Spring. (Not given in 1925-26). **HALE.**

434. **HISTORY OF CHEMISTRY**.—The development of chemistry, intended to furnish a helpful basis for the study of chemistry. Lectures and recitations three hours a week. Prerequisites: 254, 354. Fall. (Not given in 1924-25.) **HALE.**

435 (436). **ADVANCED INORGANIC CHEMISTRY.**—The underlying facts and principles are studied in some detail. Lectures and recitations three hours a week. Prerequisites: 254, 354 Winter and spring. (Not given in 1924-25.) **HALE.**

437 (438). **ADVANCED ORGANIC CHEMISTRY.**—A more thorough study of certain topics for advanced students. Lectures and recitations three hours a week. Prerequisites: 254, 355. Spring. **WERTHEIM.**

449. **ORGANIC QUALITATIVE ANALYSIS.**—Analysis and identification of simple organic compounds by the "group" or "class reaction" method. A paper on some general reaction will be presented by each student. Reading knowledge of German is desirable. Lectures two hours, laboratory six hours a week. Prerequisites: 241, 355. Fall. Fee, \$5.00. **WERTHEIM.**

451 (452). **PHYSICAL CHEMISTRY.**—The general principles of natural science with especial reference to the principles, theories and generalizations of chemistry. The method of attacking a problem, the apparatus used, and a study of certain fundamental principles are covered in the laboratory work. Lectures and recitations three hours, laboratory six hours a week. Prerequisite: 245, Physics. Winter and spring. Fee, \$5.00 each term. **PORTER.**

522, 523. **INORGANIC PREPARATIONS.**—Chiefly laboratory work with an insistence upon the principles and economic value of the process. Six hours a week. Prerequisite: 244. Winter. Fee, \$5.00 each term. **HUMPHREYS.**

524, 525. **ORGANIC PREPARATIONS.**—The more difficult reactions of organic chemistry are studied through the preparation of compounds having practical importance. Laboratory about six hours a week, seminar every two weeks. Prerequisites: 241, 355. Spring. Fee, \$5.00 each course. **WERTHEIM.**

531. **AMERICAN CHEMISTRY.**—The fundamental importance of chemistry in our modern life and the real contribution the United States has made and is making to chemistry. A non-technical course, intended to be of cultural value. Lectures and recitations three hours a week. Spring. **HALE.**

533. **METALLURGY.**—Lectures and recitations treating of principles and practice three hours a week. Prerequisite: 241. Winter. (Not given in 1924-25.) **PORTER.**

537. **SPECIAL PHYSICAL CHEMISTRY.**—A shorter course for pre-medical students. Lectures and recitations three hours a week. Prerequisites: 244, 354. Spring. (Not given in 1925-26.) **PORTER.**

631-639. **SPECIAL METHODS IN QUANTITATIVE ANALYSIS.**—Sanitary Water Analysis, Petroleum Technology, Electro-Analysis, Ultimate Organic Analysis, Coal and Coke Analysis, Analysis of Road Materials, Analysis of Certain Rocks, etc. Chiefly laboratory work with conferences. The amount of credit to be arranged with the individual student before he registers for the

course. Prerequisite: 244. Fee, \$6.00 each term. Each term as demanded. **HALE, WERTHEIM, PORTER.**

816, 817. **CHEMICAL SEMINAR.**—Members of the faculty, graduates, and advanced students meet weekly for the discussion of articles in the current chemical literature. Prerequisites: 244, 354. Winter. **HALE.**

831, 832. **CHEMICAL RESEARCH.**—Problems in research for graduates or others considered capable of successfully attacking them. Credit will vary in accordance with the amount of work done. Each term as demanded. **HALE, WERTHEIM.**

ECONOMICS AND SOCIOLOGY

PROFESSORS JAMISON, WATERMAN, ASSOCIATE PROFESSORS

CLAYTON DICKEY, MR. MOORE, MR. HESSELTINE.

The primary purpose of the courses is to assist the student in understanding the functions, the purposes, and the significance of our complex economic and social institutions.

Requirements for a Major in Economics: Forty-five credit hours, including courses 230 (231) (232), 233 (234) (235), 637. The last four courses will not be a requirement until the academic year 1925-26. Students in the College of Education preparing to teach commercial subjects may complete a major in this department with courses 230 (231) (232), 533 (534), 233 (234) (235), 537 and eighteen hours of electives.

230 (231) (232) [formerly 540 (541)]. **PRINCIPLES OF ECONOMICS.** An introduction to the fundamental economic principles underlying the production, valuation, distribution, and consumption of economic goods. Prerequisite: Sophomore standing. **HESSELTINE.**

233 (234) [formerly 730 (731)]. **ACCOUNTING.**—The theory and practice of double-entry bookkeeping, illustrating the uses of the fundamental books, the interpretation and classification of accounts, preparation and analysis of statements. Prerequisite: 230 (231) (232) or concurrent registration. Fall and winter. **MOORE.**

235 [formerly 732]. **ADVANCED ACCOUNTING.**—Partnership and corporation accounts; treatment of capital stock accounts, no par value stock, capitalization, amortization, depreciation. Prerequisite: 233 (234). Spring. **MOORE.**

Beginning with the year 1925-26 the three accounting courses will be treated as a unit and credit for less than the three courses will not be allowed. The numbers will be 233 (234) (235).

236 [formerly 539]. **ECONOMIC HISTORY OF THE UNITED STATES.**—The events of our history in the light of economic principles; the trend of past industrial development, and the source of present conflicts. Prerequisite: Sophomore standing. Fall. **HESSELTINE.**

237 [formerly 649]. **INDUSTRIAL MANAGEMENT.**—Location, arrangement, and equipment of industrial plants; methods of

departmental organization; control of budgets and accounts; securing and interpreting industrial data. Prerequisite: Junior standing. Winter. JAMISON.

330 (331) [formerly 640]. PRINCIPLES OF SOCIOLOGY.—The development of social institutions from primitive to modern times. The relationships existing among men; the possibilities of betterment. Prerequisite: Junior standing. Fall. JAMISON.

332 [formerly 642]. RURAL SOCIOLOGY.—The problems and conditions of farming: Land, rural population, rural labor, the school, the church, and other rural institutions; the effects of occupation and isolation; vice, crime, and poverty in the country; the relation of the farmer to other economic classes. Prerequisite: 330 (331). Winter. JAMISON.

333 [formerly 641]. PROBLEMS OF SOCIAL BETTERMENT.—An examination into the nature, causes, and treatment of selected social problems, viewed in the light of modern social thought. Prerequisite: 330 (331). Spring. JAMISON.

337 (338) (339) [formerly 331, 332]. AGRICULTURAL ECONOMICS AND MARKETING.—The first term gives a broad survey of general economic principles with agricultural applications; the second term is a detailed study of the principles and problems of agricultural economics; the third term gives the operations of agricultural principles in agricultural marketing. Those desiring credit may take 337 as a unit course for credit. Students who have taken 230.2 may not take 337 for credit. Prerequisite: Junior standing. CLAYTON.

530. BUSINESS ORGANIZATION AND MANAGEMENT.—A brief review of the various forms of business organization and the principles of their management and control in modern economic conditions as applied to business; the development and growth of large business units. Prerequisite: 230 (231) (232). Fall. JAMISON.

531 [formerly 741]. GOVERNMENT REGULATION OF INDUSTRY.—The problems created by the growth of large business, trusts, holding companies, the Sherman and Clayton Acts, and the Federal Trade Commission and the Federal Reserve Commission and the enlargement of the field of government control. Prerequisites: 230 (231) (232), 530. Fall. (Not given in 1924-25.) WATERMAN.

532 [formerly 681]. SELLING AND MARKETING.—Advertising plans, campaigns and media; analysis of market and methods; distribution of advertising costs; the organization, operation, and function of marketing agencies. Prerequisite: 230 (231) (232). Spring. JAMISON.

533 (534) [formerly 546 (547)]. COMMERCIAL LAW.—The laws that govern business transactions such as contracts, money, negotiable instruments, bailments, insurance, sales, corporations, and the transfer of real property. Prerequisite: None. Fall and winter. (Engineering students need not take 534.) WATERMAN.

535 [formerly 522]. CREDITS AND COLLECTIONS.—Maritime

credit, sources and analysis of credit information; credit insurance; the Bankruptcy Acts; collection agencies and collection departments. Prerequisite: 230 (231) (232). Spring. WATERMAN.

536 [formerly 645]. **BANKING PRINCIPLES.**—The historical development of our present banking system, with particular emphasis on relations existing among national and state banks and the Federal Reserve system. Prerequisite: 230 (231) (232). Spring. MOORE.

547 [formerly 647]. **CORPORATION FINANCE.**—Organization of the corporation; the problem of proper capitalization; the financial plan; corporate securities; management of corporate income; reorganization and reorganization. Prerequisite: 230 (231) (232). Spring. MOORE.

538 [formerly 742]. **PUBLIC FINANCE.**—The theories and methods of raising and distributing public revenue as applying to federal, state, and local fiscal systems; special study of Arkansas tax problems. Prerequisite: 230 (231) (232). Spring. (Not given 1924-25.) MOORE.

539 [formerly 545]. **TRANSPORTATION.**—Transportation facilities at different points of market situations; the economies of the good roads movement; the cost and service of inland waterways, steam and electric railways. Prerequisite: 230 (231) (232). Spring. JAMISON.

633 [formerly 748]. **INSURANCE.**—The principles underlying insurance; the kinds of insurance; types of policies and contracts; the regulation of insurance. Prerequisite: 230 (231) (232). Spring. MOORE.

637 [formerly 639]. **ECONOMIC STATISTICS.**—The theory and practice of statistics in economic and social problems; sources, and methods of collecting data bearing on prices, production, population, and other economic and social problems; means of correlation and interpretation of such data. Prerequisite: 230 (231) (232). Spring. CLAYTON.

ENGLISH

PROFESSORS: JONAS JORDAN, ASSOCIATE PROFESSOR HASTINGS, ASSISTANT PROFESSORS HATHORN, FRENCH, MISS DAVIS.

MR. HUNT, MR. MCCOLEY, MR. DELANCEY,
MRS. HASTINGS

The aim of the course is (1) to train students to write English clearly and correctly, and (2) to teach them to understand and appreciate the best in literature. Every course in composition, therefore, is accompanied by a considerable amount of required reading, and every course in literature requires some written criticism.

Requirements for a Major in English: Fifty-four term hours, including courses 131 (132) (133) and 531 (532) (533) [or 144 (145) (146)]; 521 (522) (523) or 545, or Journalism 631 (632) (633); and two from the following three: 631 (632); 643; 644

(645). Latin 537 and Greek 543 (544) may, with the consent of the head of the department, be counted toward the major in English. Students who expect to be recommended for teaching positions in secondary schools should complete at least forty-five term hours in English.

Courses 537 (538) (539) and 631 (632) (633) may, with the consent of the head of the department, be divided. Students taking up journalism should consult the head of the department at the beginning of the sophomore year.

131 (132) (133). RHETORIC AND COMPOSITION.—Recitations, themes, conferences, and required reading, three hours a week. Some practice in argumentation, description, and narration, but the chief drill is in expository writing. *Required of all freshmen except those who are admitted to English 137-9.* HOLCOMBE, DAVIS, MCCOLLEY, HUNT, DELANCEY, MRS. HASTINGS.

137 (138) (139) [formerly 144 (145) (146)]. COMPOSITION AND LITERATURE.—Intended for those students who have shown marked proficiency in English in high school. Consent of the instructor is required. This course may be substituted for English 531 (532) (533) as a prerequisite to advanced courses. JONES.

221 (222) (223). ENGLISH COMPOSITION.—Required of all students in the College of Arts and Sciences who do not make a grade higher than "D" in Freshman English.

Practice in writing and intensive drill in correct usage of spoken and written English. JONES.

331 (332). ENGLISH COMPOSITION.—Technical writing, with some study of scientific and technical articles of various kinds. Open only to students in the College of Agriculture and Engineering. Prerequisite: 131-3. Fall and Spring. HASTINGS, MRS. HASTINGS.

521 (522) (523). EXPOSITION.—The principles of expository writing. Themes, assigned readings, and conferences. Prerequisite: 131-133. HOLCOMBE.

531 (532) (533). ENGLISH LITERATURE IN OUTLINE.—The life and literature of the English people from Anglo-Saxon times to the present. Lectures, study of the works of representative authors, reports, critical essays. Prerequisite: 131-133. JONES, HASTINGS, MCCOLLEY, HUNT, DELANCEY.

534 (535) (536). AMERICAN LITERATURE.—A general course, with intensive study of some of the major writers. Prerequisite: 531-3. HASTINGS.

537 (538) (539). ENGLISH PROSE FICTION.—Critical and historical study of prose fiction from its beginning to the present. Prerequisite: 531-3. HASTINGS.

631 (632) (633). MIDDLE ENGLISH.—A study of Chaucer, followed by a general study of other Middle English writers. Prerequisite: 531-3. HOLCOMBE.

634, 635 [formerly 643]. ANGLO-SAXON.—A study of Anglo-Saxon grammar, with some reading of West Saxon prose.

Prerequisite: 531-3. Winter and spring. (Not given in 1925-26). JONES.

636, 637, 638 [formerly 644, 645]. SHAKESPEARE.—A critical study of a few plays; rapid reading of all the other plays. Prerequisite: 531-3. JONES.

639 [formerly 545]. THE SHORT STORY.—A course in reading, criticising, and writing narratives and short stories. Prerequisite: 531-3. Spring. McCOLLEY.

721, 722 [formerly 646]. THE DRAMA IN ENGLAND, 1580-1642.—The Elizabethan dramatists, exclusive of Shakespeare. Prerequisite: 531-3. Fall and winter. JORDAN.

727 (728) (729) [formerly 544]. EIGHTEENTH CENTURY LITERATURE.—Prerequisite: 531-3. (Not given in 1924-25.) JONES.

731 [formerly 541]. BRITISH ROMANTIC POETS OF THE NINETEENTH CENTURY.—Chiefly a study of the poetry of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. Prerequisite: 531-3. Fall. JORDAN.

732 [formerly 542]. TENNYSON AND BROWNING.—Prerequisite: 531-3. Winter. JORDAN.

733 [formerly 543]. NINETEENTH CENTURY ESSAYISTS.—The principal essayists studied are Lamb, Hazlitt, DeQuincey, Macaulay, Carlyle, Ruskin, Arnold, Newman, Pater, and Stevenson. Prerequisite: 531-3. Spring. JORDAN.

734 [formerly 546]. LYRIC POETRY.—The greatest examples of lyric poetry in English and other literatures. Prerequisite: 531-3. Winter. HASTINGS.

735 [formerly 547]. THE CONTEMPORARY DRAMA.—Recent plays in Europe and America. Prerequisite: 531-3. Spring. HOLCOMBE.

736 [formerly 548]. THE DRAMA IN ENGLAND, 1660-1880.—Prerequisite: 531-3. Fall. JORDAN.

821 (822) (823) [formerly 647]. LITERARY CRITICISM.—The more generally accepted principles of literary criticism and their application to the chief types of literature. Consent of instructor necessary. Lectures and recitations. (Not given in 1924-25.) JONES.

824 (825) (826) [formerly 648]. COMPARATIVE LITERATURE.—General survey of some of the more important works of Continental writers and of literary tendencies since the Renaissance, with stress upon such as have been influential in England. Consent of instructor necessary. (Not given in 1925-26.) JONES.

Journalism

537 (538) (539). NEWSPAPER WRITING.—A study of news interest and the technique of news-writing. Adapted to those who wish either to make journalism their profession or to gain facility in writing effective English. Made practical by carrying on class work in connection with daily newspaper and student publications. Prerequisite: English 131-133. Fee, \$1.00 each term. FRENCH.

(621) (622) (623). **NEWSPAPER EDITING.**—Editing copy, correcting proof, writing headlines, making up, rewriting, and other details of editing; the organization and methods of local, state, and national news gathering. Prerequisite: Journalism 537-539. Alternates with Journalism 631. (Not given in 1925-26.) Fee, \$1.00 each term. FRENCH.

631 (632) (633). **SPECIAL FEATURE ARTICLES AND EDITORIALS.**—The special feature article in newspaper and magazine is studied and analyzed as a form, and practice in writing is given with a view to publication. The same is done with the editorial. Prerequisite: Journalism 537-9. Alternates with Journalism 621-3. (Not given in 1924-25.) Fee \$1.00 each term. FRENCH.

FINE ARTS

PROFESSORS TOVEY, SHULTZ, MISS GALBRAITH, MISS GWATHMEY, MR. MITCHELL, MR. HANSARD, MISS PALMER, MISS GILLESPIE, MRS. PARMELEE

The department offers courses in the theory of music, piano, violin, voice, art, and the history of music. A statement of the requirements for admission will be found on previous pages for both regular and special students.

Courses in music leading to a diploma or a degree are outlined on previous pages.

Six term hours of credit toward the Bachelor of Arts degree will be allowed for work in music, of which not more than three hours shall be allowed for courses in piano, violin, and voice. No credit is allowed unless the student takes at least two lessons a week for a full year.

Credit for pipe organ will be allowed toward the A. B. degree and in the College of Education for the first year's work.

Special Fees

Piano, or Organ, with Director, a term.....	\$45 00
Voice, a term.....	45 00
Organ, or Piano, with Assistant, a term.....	33.50
Violin, a term.....	33.50
Cello, a term.....	33.50
Study of Appreciation, a term.....	6.00
Harmony, in class, a term.....	6.00
Form and analysis.....	6.00
History of Music, in class, a term.....	6.00
Counterpoint, a term.....	6.00
Piano Practice, one hour daily, a term.....	6.00
Diploma fee, for completion of the special Diploma course in music.....	5.00
Choral Music.....	4.00

Theory of Music

111 (112) (113). **HARMONY.**—One hour a week. MITCHELL.

- 211 (212) (213). ADVANCED HARMONY.—One hour a week. MITCHELL.
- 114 (115) (116). HISTORY OF MUSIC.—One hour a week. HANSARD.
- 117 (118) (119). APPRECIATION I.—One hour a week. TOVEY.
- 311 (312) (313). COUNTERPOINT. One hour a week. TOVEY.
- 217 (218) (219). APPRECIATION II.—One hour a week. TOVEY.
- 317 (318) (319). APPRECIATION III. One hour a week. TOVEY.
- 324 (325) (326). FORM AND ANALYSIS.—TOVEY.
- 424 (425) (426). ENSEMBLE MUSIC.—HANSARD.
- 427 (428) (429). CANON AND FUGUE.—TOVEY.
- 524 (525) (526). SULLY-TION AND INTERPRETATION.—TOVEY.
- 528, 529. CHORAL MUSIC.—TOVEY.

Piano

The aim is to develop technical control and the power of musical conception as adapted to artistic ends.

PRELIMINARY GRADE. TOVEY, MITCHELL, AND HANSARD.

INTERMEDIATE GRADE. TOVEY AND MITCHELL.

ADVANCED GRADE. TOVEY AND MITCHELL.

ACCOMPANIMENT. TOVEY.

THE TEACHING OF MUSIC. For students who expect to teach music. TOVEY.

Violin

The instruction is designed to develop correct technique. In addition to the studies, the student is given compositions of standard composers. HANSARD.

Pipe Organ

This course prepares for church playing and concert work. TOVEY AND GILLESPIE.

Voice

The purpose is the correct production of tone and the building and development of the voice according to the old Italian method. Special stress is laid on breath control, accuracy of tone, distinct articulation, the study of intervals, scale building, sight reading, and phrasing. SCHULTZ.

PUBLIC SCHOOL MUSIC, AND SUPERVISORS' COURSE. PARMELEE.

Art

This department seeks to lay the foundation for a thorough art education. Its purpose is to awaken in the student an appreciation of beauty and to cultivate self expression in form and color. The advantages offered enable both elementary and advanced students to pursue the study of art while taking a college course. Twenty-seven term hours of credit toward the Bachelor of Arts degree will be allowed for work in art. The depart-

ment offers courses in fine and applied arts, normal art, and the history of art.

121, 122, 123. **ELEMENTARY FREEHAND DRAWING.**—Drawing from still life, casts, flowers; perspective. Four hours a week. GALBRAITH.

127 (128) (129). **ELEMENTARY NORMAL ART.**—The teaching of art in the grades. Planning courses of study. Observation. Practice teaching. Four hours a week. PALMER AND ASSISTANTS.

134 (135) (136). **ELEMENTARY DESIGN.**—Principles of design in line, value, and color. Three hours lecture, two hours laboratory a week. GWATHMEY AND ASSISTANTS.

221 (222) 223. **COSTUME DESIGN.**—Concerned first with the essentials of taste in dress; second, with the principles of design in form and color as they relate to clothes; and third, with the study of the figure and its relation to clothes design. PALMER.

231. **STUDY OF COSTUME.**—Same as above; for Home Economics students only. Fall. PALMER.

233 (234) (235). **HISTORY OF ART.**—A brief study of the history of painting, architecture, and sculpture. Lectures illustrated by prints and lantern slides, together with text and reference reading. Three hours a week. GALBRAITH.

321, 322, 323. **COMMERCIAL DESIGN.**—The development of the advertising idea as it relates to the selling qualities; its adaptations to various types of commodities; the technique of composition, drawing, color, and lettering. Prerequisite: 121-3. GWATHMEY.

421 (422) (423). **HOUSE DESIGNING AND FURNISHING.**—Simple floor plans for houses, the intelligent planning of construction in various materials, the rendering of drawings of trim, openings, paneling, chimney pieces, and other features. Color harmonies, and furnishings in interiors. GWATHMEY.

431. **HOUSE PLANNING.**—A study of the situation, sanitation and construction of the house; the application of the principles of design to exteriors; the cost of building and maintenance. Laboratory includes the making of floor plans and elevations. Lecture one hour, laboratory four hours a week. Prerequisite: 134-6. For Home Economics students only. Winter. GWATHMEY.

432. **HOUSE FURNISHING.**—The principles of design and color applied to the interior decorating and furnishing of a house; problems in costs. Lecture one hour, laboratory four hours. Prerequisite: 431. For Home Economics students only. Spring. GWATHMEY.

443. **CIVIC ART.**—The outside of the house, its color, plan of walks, gardens, and lawn. Special attention is given to civic cooperative work. Spring. GWATHMEY.

521, 522, 523. **FREEHAND DRAWING.**—Drawing and painting from still life and costume model. Four hours a week. Prerequisite: 121-3. GALBRAITH.

627 (628) (629). ADVANCED NORMAL ART.—The teaching of art in high schools. Four hours a week. Prerequisite: 127-9. GALBRAITH.

GEOLOGY

PROFESSOR CADY AND MR. CRONEIS

Requirements for a Major in Geology: Forty-five term hours; in addition either English 331 (332), or 521 (522) (523), twelve term hours in each of the following subjects: Chemistry, Botany or Zoology, Mathematics, Astronomy or Physics or Sociology; six additional term hours in any two of the subjects listed above or twelve term hours in any one of those subjects. Civil Engineering 225 and 231 will be counted toward the requirements for a major.

141. PRINCIPLES OF GEOGRAPHY.—A course dealing with the physical background of geography, including the movements and work of the atmosphere, the physiographic features of the earth and the relation of physical environment to man's activities. Restricted to freshmen and sophomores. No prerequisites. Three recitations and two hours of laboratory. Fall and winter. Fee, \$1.50. CADY AND CRONEIS.

142, 143. INTRODUCTORY GEOLOGY.—A short course in General Geology for students who have not had Chemistry. The first term deals with geologic processes, the second term with historical Geology. Three recitations and two hours of laboratory. Prerequisite: 141; 142 is prerequisite to 143; 142 Winter and spring; 143 Spring. CADY AND CRONEIS.

547 (548) (549). GENERAL GEOLOGY.—The beginning course for students expecting to major in Geology. The Geology requirement for the degree of Bachelor of Science. This course may be substituted for the Geology requirement in the College of Agriculture (Geology 230). Geology 547 meets the Geology requirement in the course of Civil Engineering. Only students in Civil Engineering will be permitted to divide the course, and receive credit for less than three terms of work. Three recitations and three hours of laboratory. Prerequisite: Completion of or registration for Chemistry 141 (142) (143). Fee, \$1.50 each term. CADY.

230. AGRICULTURAL GEOLOGY.—A brief course in rock minerals, rocks, rock weathering and soil formation, and rock structure, with a brief outline of geologic history. Primarily for students in the College of Agriculture, to meet the Geology requirement for graduation. Not open to students who are taking 142 or 547. Two recitations and two hours of laboratory. Prerequisite: Chemistry 143. Fall. Fee, \$1.50. CADY.

231. ANTHROPOLOGY.—Man's place in nature, his early history, and racial characteristics. Three recitations. Prerequisite: 142 or 548 or 230. Given in 1925-26 and in alternate years. Spring. CRONEIS.

234. BLOW PIPE ANALYSIS.—One hour lecture, six hours of

laboratory. Prerequisite: Chemistry 143. Given in 1925-26 and alternate years. Winter. Fee, \$5.00. CADY.

241. MINERALS AND THEIR CRYSTAL FORMS.—A study of elementary crystallography and mineralogy of the common minerals of ores and rocks. About 75 minerals will be studied. Two recitations and four hours of laboratory. Prerequisite: Completion of or registration for 547. Given in 1924-25 and alternate years. Fall. Fee, \$2.00. CADY.

245. ELEMENTARY PETROLOGY.—Study and identification of the common rocks. Two recitations and four hours of laboratory. Prerequisite: Geology 241. Given in 1924-25 and alternate years. Winter. Fee, \$2.00. CADY.

243. PALEONTOLOGY.—Advanced course in historical Geology concerned particularly with the life of the Paleozoic Era. Prerequisite: 547 or 143. Three recitations and two hours of laboratory. Given in 1926-27 and alternate years. Winter. Fee, \$1.50. CRONEIS.

244. GEOLOGY OF OIL AND GAS.—Three recitations and two hours of laboratory. Prerequisite: 142 or 547. Given in 1926-27 and alternate years. Spring. Fee, \$1.50. CRONEIS.

246. PHYSIOGRAPHY OF THE UNITED STATES.—The typical land forms in the United States, and their origin. Regional geology and physiography. Prerequisite: 146 or 143 or 149. Given in 1925-26 and alternate years. Winter. Fee, \$1.50. CADY.

346. STRUCTURAL GEOLOGY.—Field and laboratory practice in faults and folds and other structural relationships existing in the earth's crust. Two recitations and four hours of laboratory. Prerequisite: 547. Given in 1925-26 and alternate years. Fall. CADY.

321, 331, or 341. FIELD GEOLOGY.—Field and laboratory practice in the construction of geologic maps and sections. Equivalent to three hours of laboratory work for each one hour credit. Prerequisite: 547. Spring. Fee, \$2.00. CADY.

GERMAN

PROFESSOR LUSSKY

The aim of the work is primarily to acquaint the student with the German language and literature as a means of culture. The practical value of a knowledge of German is, however, not neglected, as is indicated by the courses in scientific reading and composition. The excellent collection of German books in the University library offers adequate facilities for advanced work in literature. Graduate courses will be given as called for.

Requirements for a Major in German. Forty-five term hours. Students preparing to teach German should consult the head of the department as early as possible.

141 (142) (143). ELEMENTARY GERMAN.—Grammar, composition, and the reading of easy prose and poetry. No prerequisite. LUSSKY.

231 (232) (233). LITERARY AND SCIENTIFIC GERMAN.—Reading

and discussion of works of a literary and scientific nature. Prerequisite: 141-143. LUSSKY.

521 (522) (523). *INTRODUCTORY COMPOSITION*.—A thorough review of grammar, and practice in the art of composition. Prerequisite: 141-143. LUSSKY.

631 (632) (633). *GOETHE AND SCHILLER*.—The lives and selected works of these authors; collateral reading and reports. Prerequisites: 231-233, or 521-523. LUSSKY.

HISTORY AND POLITICAL SCIENCE

PROFESSOR THOMAS, ASSISTANT PROFESSORS KINCHEN,* BENSON,
MR. HESSELTINE

The courses are designed to form part of a general cultural education. They are essential to a thorough preparation for law, journalism, politics, ministry, or any other public calling. Course 131 (132) (133) is foundation work and should be taken in the freshman year.

Requirements for a Major in History. Forty-five credit hours in history and political science. Students expecting to teach history in the secondary schools should complete at least 27 credit hours in the department. Course 131 (132) (133) should be the basis for the work, and courses 531-536 should follow. At least nine hours should be taken in economics and sociology. Students who expect to pursue graduate work should take courses 633, 634, 635, or 636, 637, 638, and two years of a modern language.

History

131 (132) (133). *INTRODUCTION TO MODERN AND CONTEMPORARY CIVILIZATION*. The chief content of this course is history since 1500 with most emphasis on the period since 1815. Emphasis will be laid on economic, cultural, and political developments in an effort to help the student understand the civilization of today. For freshmen. THOMAS, BENSON, and HESSELTINE.

231 (232) (233). *HISTORY OF THE UNITED STATES SINCE 1776*. A general course dealing with selected (including international), economic, and social questions. Some attention given to geography in its bearing upon the development of our history. Prerequisites: 131-133, or such more standing. THOMAS and HESSELTINE.

234 (235) (236). *HISTORY OF ENGLAND TO 1643*. A general course treating of the political, religious, literary, and economic activities of the English people. The origin and growth of the more important institutions, such as kingship, parliament, courts, and the church; the struggle for democratic government; especially the great reforms of the nineteenth and twentieth centuries, and the movement for social reformism. A brief survey of the British Empire. Lectures and recitations throughout the year. Not open to freshmen. BENSON.

*Resigned, December 31, 1924.

237. HISTORY OF GREECE.—The history and institutions of the Greeks. A general knowledge of the subject presumed. Prerequisite: 131-133, or sophomore standing. Fall. BENSON.

238. HISTORY OF ROME.—The history and institutions of the Romans. A general knowledge of the subject presumed. Prerequisite: 131-133, or sophomore standing. Winter. BENSON.

239. HISTORY OF THE MIDDLE AGES TO 1300.—The international, economic, social and intellectual development of this period will be stressed rather than political history. Prerequisite: 131-133, or sophomore standing. Spring. BENSON.

331. THE RENAISSANCE.—The antecedents of the Renaissance; its beginnings and development in Italy. The Renaissance in other European countries. Study of the political, economic, artistic, and intellectual phases of this period. Prerequisite: 131-133, or sophomore standing. Fall. BENSON.

332. THE REFORMATION.—The Protestant revolt of the sixteenth century. The Catholic Reaction as expressed in the Jesuit order; the Council of Trent; and the Thirty Years' War. Prerequisite: 131-133, or sophomore standing. Winter. BENSON.

333. FRENCH REVOLUTION AND THE NAPOLEONIC ERA.—France on the eve of the Revolution; French political philosophers; causes and events of the Revolution; and the wars of Napoleon. Prerequisite: 131-133, or sophomore standing. Fall. BENSON.

336. INTERNATIONAL RELATIONS.—Colonial expansion and its relation to economic development, international rivalries, the Great War, and subsequent attempts at adjustment. Prerequisite: Nine hours of history, or junior standing. Spring. THOMAS.

337. HISTORY OF HISPANIC AMERICA SINCE 1800.—A brief survey of the Spanish and Portuguese colonial systems; a careful study of the wars of emancipation; the rise and development of Hispanic-American nations; the relations of these with foreign countries; and the development of Pan-Americanism. Special attention given to the Monroe, Calvo, and Drago doctrines. Prerequisite: 131-133, or junior standing. Fall.

338. HISTORY OF THE PACIFIC AND THE FAR EAST.—The islands of the Pacific and the countries of eastern Asia, particularly China and Japan, and their relations to the western nations. Prerequisite: 131-133, or junior standing. Winter.

531. THE UNITED STATES, 1763-1789.—A study of the colonies in their relation to the mother country, with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period, as preparing the colonies for separation. The steps leading to the Declaration of Independence, the failure of the Confederation, and the formation and adoption of the Constitution will be studied in detail. Open to juniors and seniors. Fall. THOMAS.

532. THE UNITED STATES, 1850-1861.—Review of the theories of the nature of the Union, followed by an intensive study of the

political and social history of the period. Prerequisite: Fifteen hours of history. Winter. THOMAS.

533. THE UNITED STATES, 1861-1877.—The political history of the Civil War, followed by an intensive study of the political, economic and social problems of Reconstruction. Prerequisite: Fifteen hours of history. Spring. THOMAS.

534. HISTORY OF THE BRITISH EMPIRE.—Brief treatment of the formation of the English nation; the rise and growth of the British empire, a detailed study of the establishment and growth of the British colonial system. Prerequisite: Fifteen hours of history, or junior standing. Fall. BENSON.

535. IMPERIAL CONTROL.—Attempts at imperial control and the loss of the American colonies; growth of the empire in India; transition to the modern colonial system; colonization of Australia and South Africa. Prerequisite: Fifteen hours of history, or junior standing. Winter. BENSON.

536. DEMOCRATIZATION OF THE EMPIRE.—Political democracy in the self-governing colonies; economic and social legislation. Part played by the colonies in the Great War and the Peace Settlement. Prerequisite: Fifteen hours of history, or junior standing. Spring. BENSON.

732. RACE RELATIONS.—The geographical distribution of the races of the world; the present situation of the white race as the dominant race; the history of the negro in America; and the present day aspect of the race question in regard to international relations, education, sanitation, and civil and economic justice. Open only to juniors and seniors. Spring. THOMAS.

Political Science

531. AMERICAN STATE AND LOCAL GOVERNMENTS.—A brief review of the development of American state constitutions; the structure and workings of state governments as organized today, and some of the practical problems now before the states; a brief survey of county and municipal government. Prerequisite: History 131-133, or sophomore standing. Winter. THOMAS.

532. AMERICAN NATIONAL GOVERNMENT.—A basic course for more advanced work in government. The organization of our national government and the work of co-ordinate branches, but most emphasis laid upon the work of administration. Prerequisite: History 131-133, or sophomore standing. Spring. THOMAS.

533. POLITICAL PARTIES.—The origin and development of political parties in the United States and their present organization and activities. Prerequisite: Nine hours of history, or sophomore standing. Fall. THOMAS.

534. COMPARATIVE GOVERNMENT.—The structure and powers of the national governments of the United States and of the leading European nations. Special attention given to the place of the federal system in public law. Open only to juniors and seniors. Fall. THOMAS.

535. **INTERNATIONAL LAW.** The development of international law and the usages and principles now considered binding on civilized nations. Open only to juniors and seniors. Considerable outside reading. Winter. THOMAS.

MATHEMATICS AND ASTRONOMY

PROFESSORS DROKE, HARGIS, EMERITUS ASSOCIATE PROFESSOR DUNN, ASSISTANT PROFESSORS CAMPBELL, HUGHES, MR. TAYLOR, MRS. BUCHHOLZ

The courses are designed to meet the requirements of (1) students in engineering; (2) students who expect to teach mathematics; and (3) students who are interested in mathematics for the sake of the subject itself.

Requirements for a Major in Mathematics. Fifty-one credit hours, including 553, and 21 hours to be selected by the major professor. Students in Engineering will find 533 very helpful. Students preparing to teach mathematics in secondary schools should complete at least 534 (535), and Astronomy 231 (232) (233). They should also take courses in the teaching of secondary mathematics and in the history of mathematics. These courses will be offered when there is a demand for them.

Note. Students who enter the University in the fall and who present only one entrance unit in algebra should pursue the sequence, 150, 151, 152, in the freshman year, and 153, 251, 252, in the sophomore year, and 253 in the junior year, fall. Students who present one and one-half entrance units of algebra should pursue the sequence, 151, 152, 153, in the freshman year, and 251, 252, 253, in the sophomore year.

Mathematics

111 (112) (113) --- **SOLID GEOMETRY.** For students in the College of Engineering. TAYLOR, BUCHHOLZ.

130. **ALGEBRA AND PLANE TRIGONOMETRY.** For students in the College of Agriculture. Fall. HUGHES.

133. **SOLID GEOMETRY.**—Fall. TAYLOR.

135 (136) (137) **ALGEBRA AND TRIGONOMETRY.** Review of fundamental operations of algebra; factoring, quadratic equations, logarithms, etc. Thorough study of elementary Trigonometry. Open to students with one entrance unit in Algebra and one in Plane Geometry. Primarily for students in the College of Education. Open to others. DROKE.

150. **ELEMENTARY ALGEBRA.** A collegiate treatment of advanced high school algebra, designed for students who offer only one unit in algebra for entrance. May be taken by students in the Colleges of Engineering and of Agriculture to remove entrance deficiencies. Five hours a week. Fall. TAYLOR.

151. **COLLEGE ALGEBRA.**—For students in any one of the colleges who offer at least one and one-half units in algebra for entrance. Fall and winter. DROKE, CAMPBELL, HUGHES, TAYLOR, BUCHHOLZ.

152. PLANE TRIGONOMETRY.—For students in any one of the colleges who offer one unit of plane geometry for entrance. Prerequisite: 151. Winter and Spring. DROKE, CAMPBELL, HUGHES, TAYLOR.

153. ANALYTIC GEOMETRY.—For students in the Colleges of Arts and Sciences, of Engineering and of Education. Prerequisite: 151, 152. Fall and Spring. DROKE, CAMPBELL, HUGHES, TAYLOR.

251. ADVANCED TRIGONOMETRY, ANALYTIC GEOMETRY.—Contains some advanced algebra, a review of the important topics in trigonometry, and solid analytic geometry. Prerequisites: 151, 152, 153. Fall and Winter. DROKE, CAMPBELL, HUGHES, TAYLOR.
252 (253). DIFFERENTIAL AND INTEGRAL CALCULUS.—Prerequisite: 251. DROKE, HUGHES, TAYLOR.

331. THEORY OF MATHEMATICS.—Spring. DROKE.

332. ADVANCED ANALYTIC GEOMETRY.—Prerequisites: 153, 251. Fall. CAMPBELL.

533 (534). ADVANCED CALCULUS.—Prerequisite: 253. Winter and Spring. DROKE.

536 (537). DIFFERENTIAL EQUATIONS.—Winter and Spring. DROKE.

631. ADVANCED ALGEBRA.—Prerequisite: 151, 141. HUGHES.

632 (633). THEORY OF EQUATIONS.—Prerequisite: 631. Winter and Spring. HUGHES.

634 (635) (636). THEORY OF FUNCTIONS.—Prerequisite: 253. CAMPBELL.

637. MODERN GEOMETRY.—Prerequisite: Sophomore standing. Spring. CAMPBELL.

Astronomy

231 (232). DESCRIPTIVE ASTRONOMY.—Lectures and recitations three hours a week, with occasional meeting at night for observation. Prerequisite: Mathematics 152 and sophomore standing. Winter and spring. HUGHES.

MILITARY ART

MAJOR SMITH, CAPTAIN DILL, CAPTAIN DENN, LIEUTENANT MULLETT, SERGEANT GREATHOUSE, SERGEANT GUARD.

Under the provisions of the Act of Congress, approved July 2, 1862, all male students in their freshman and sophomore years are required to take military art. The course may be elected in the junior and senior years. Officers of the United States Army are detailed to act as professors.

Reserve Officers' Training Corps

The University of Arkansas has complied with the requirements of the War Department and has been officially designated as one of the civil institutions at which shall be maintained units of the Senior Division of the Reserve Officers' Training

Corps. Eligibility is limited to students who are citizens of the United States, who are not less than 14 years of age, and whose physical condition indicates that they are fit to perform military duty, or will be so fit upon arrival at military age.

The course is divided into two parts of two years each; the Basic Course covering the freshman and sophomore years, and the Advanced Course covering the junior and senior years. Camps, of six weeks duration, are held during the summer. These camps are subdivided into Basic Camps and Advanced Camps. Attendance at the former is voluntary and is open to all members of the Basic Course. Attendance at the latter is open to members of the Advanced Course only, and attendance at one Advanced Camp, prior to graduation, is required of all members of the Advanced Course. All expenses at these Camps, including transportation to and from camp, are paid by the government.

At the conclusion of the sophomore year, those students who have shown marked ability as leaders, who have satisfactorily completed the Basic Course, and whose scholastic standing in other academic subjects is good, are recommended as eligible for the further training of the Advanced Course by the Professor of Military Science and Tactics, and with the approval of the President of the institution are allowed to enroll in the Advanced Course. Those who so enroll are required to agree in writing to continue in the Corps for the remaining two years and to attend at least one Advanced Camp prior to graduation. Members of the Advanced Course are paid commutation of subsistence by the Government during the remainder of their service in the Corps at the rate of about twelve dollars a month. Men who satisfactorily complete the four years' course will be offered Commissions in the Officers' Reserve Corps as Second Lieutenants of Infantry.

Students may provide their own uniforms, or a uniform will be issued by the Government on deposit of \$15, the deposit to be returned when the uniform is turned in. An additional uniform is furnished those in attendance at Summer Camps. Those attending the Advanced Camp receive pay at the rate of one dollar a day. The total money value of uniform received, commutation of subsistence, rations in kind at Camp, pay at Camp, and transportation to and from Camp for each man who completes the four year course, is \$659.04. There is the privilege of special technical training (see outline of courses below) in various fields without any tuition fee.

111 (112) (113). BASIC COURSE, FIRST YEAR.—Theoretical and practical instruction in organization, physical training, military courtesy and customs of the service, infantry drill, including close and extended order and ceremonies, scouting and patrolling, and rifle marksmanship. MULLETT.

211 (212) (213). BASIC COURSE, SECOND YEAR.—Theoretical and practical instruction in map reading and military sketching,

military hygiene, first aid and sanitation, physical training, infantry weapons, including the bayonet, automatic rifle, hand grenade and rifle grenade, musketry, and the art of leadership. DILL.

531 (532) (533). ADVANCED COURSE, FIRST YEAR.—Theoretical and practical instruction in the rules of land warfare, military law and its relation to civil law, machine guns, 37 mm. gun, trench mortar, field engineering, physical training, and the art of leadership. DUNN.

631 (632) (633). ADVANCED COURSE, SECOND YEAR.—Theoretical and practical instruction in military history, administration and supply, organization, minor tactics including the employment of the auxiliary infantry weapons, physical training, and the art of leadership. SMITH.

PHYSICAL EDUCATION FOR WOMEN

ASSISTANT PROFESSOR SHALEY, MISS MANSFIELD

The purpose of the work is to improve the standard of health, and to increase the physical efficiency of the young women. A careful medical and physical examination is made of every student upon entrance and at such intervals throughout the year as may seem necessary. The exercise assigned is in accordance with the results found. The work is conducted out-of-doors whenever possible.

A regulation costume of white middy-blouse, black serge bloomers, and black gymnasium shoes is required. Owing to the necessity of uniformity, gymnasium suits should not be purchased before entering college.

The courses in Physical Education are required of all women students during their freshman and sophomore years. A maximum of nine credit hours may be used toward graduation.

(See also courses in College of Education.)

111, 112, 113. ELEMENTARY PHYSICAL EDUCATION.—Exercises for good posture, and games; general gymnastics, corrective gymnastics, games and folk dances; tennis and baseball. SHALEY, MANSFIELD.

211, 212, 213. INTERMEDIATE PHYSICAL EDUCATION.—Elective sports, hockey and tennis; volley ball, basket-ball, and indoor baseball; tennis, baseball, and track. SHALEY, MANSFIELD.

217 (218) (219). ELEMENTARY NATURAL DANCING.—The expression of music by the individual, entailing a study of phrasing, note values and moods to be found in music, and exercises for the purpose of gaining control of movements. May be taken in place of 211, 212, 213. Prerequisite: 111-3. MANSFIELD.

514 (515) (516). ADVANCED NATURAL DANCING.—The higher forms of dancing leading directly to dance drama. Prerequisite: 217-9. SHALEY.

PHYSICS

PROFESSOR RIPLEY, ASSISTANT PROFESSOR PARSONS,
MR. CROFUTT

The courses are designed (1) for students in the courses in engineering, agriculture, and chemistry, as part of their required curriculum, and (2) for students in other courses who desire a general knowledge of the subject or who wish to prepare for the study of medicine, or for teaching or graduate work.

Requirements for a Major in Physics: Forty-five term hours, including courses 141-3, or 144-6 or 147-9; 231-3; 527-9; 531 or 534; 634; 628-9; 618-9, and 635. Students who are preparing to teach physics in the secondary schools should complete as a minimum requirement courses 141-143, 231-3, and 527-9.

141 (142) (143). *EXPERIMENTAL PHYSICS.*—A non-mathematical course in physics designed for students who desire to secure a general knowledge of the subject and of its application to everyday life. The experimental and practical phases are stressed. Open only to students offering no entrance credit in physics. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY.

144 (145) (146). *EXPERIMENTAL PHYSICS.*—Similar to 141, but more advanced. Open to students offering physics for entrance credit. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. PARSONS.

144A (145A). *EXPERIMENTAL PHYSICS.*—A course arranged for agricultural students, covering the subjects of mechanics, heat, and electricity in two quarters. The practical phases of the subject are stressed. Fall and winter. Fee, \$1.50 each term. PARSONS.

147 (148) (149). *GENERAL PHYSICS.*—A general course more mathematical than the courses described above. Not open to students who have taken courses 141 or 144. Required of all engineering students. The application of physical laws to engineering problems and the solution of such problems. Mechanics, heat, electricity, and magnetism are emphasized. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY, PARSONS, AND CROFUTT.

231, 232, 233. *THEORETICAL PHYSICS.*—An advanced course in general physics dealing with the development of formulae and the application of formulae and laws to the solving of problems. Divided as follows: Fall, mechanics; winter, magnetism and electricity; spring, heat, sound and light. Lectures and recitations three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. CROFUTT.

517, 518, 519. *LABORATORY PHYSICS.*—Exercises in the determination of moments of inertia, of center of mass, of Young's modulus, coefficient of viscosity, and of thermal expansion; of heats, of fusion and vaporization, of capacity, of high and low potentials, photometric measurements, etc. Laboratory work

three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. Fee, \$1.50 each term. **RIPLEY.**

527, 528, 529. **LABORATORY PHYSICS.**—Same as preceding, but with six hours of laboratory work each week. Fee, \$3.00 each term. **PARSONS.**

531. **HEAT.**—Thermometry, heats of combustion, specific heats of solids, liquids, and gases; vapor densities, and the laws of thermo-dynamics. Lectures and recitations two hours a week, laboratory work three hours a week. Prerequisite: 141-143, or 144-146, or 147-149. (Offered in 1925-26 and alternate years.) Fall. Fee, \$1.50. **PARSONS.**

534. **HIGH TEMPERATURES.**—Measurements of high temperatures by electrical and optical methods. The theory and use of scientific and commercial types of instruments. Lectures and recitations two hours a week, laboratory work three hours a week. Prerequisite: 141-143 or 144-146, or 147-149. Fee, \$1.50. (Offered in 1924-25 and alternate years.) Fall. **PARSONS.**

618 (619). **ELECTRICAL MEASUREMENTS.**—A laboratory course to follow or accompany 628-9. Laboratory work three hours a week. Winter and spring. Fee, \$1.50 each term. **CROFT.**

628 (629). **ELECTRICITY AND MAGNETISM.**—An advanced course in the study of the fundamental units and quantities of electricity and magnetism with special emphasis on accurate methods of determination, and the derivation of the equations involved. Designed for students in electrical engineering, and for advanced students in physics and mathematics. Two recitations a week. Winter and spring. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 251. **CROFT.**

633. **LIGHT.**—The modern theory of light with a consideration of the recent advances in this branch of physics. The theory of optical instruments, dispersion, diffraction, polarization, etc. Lectures and recitations two hours a week, laboratory work three hours a week. Spring. Prerequisite: 141-143 or 144-146, or 147-149. Fee, \$1.50. (Offered in 1925-26 and alternate years.) **PARSONS.**

635. **ELECTRONS.**—The properties of the electron and the development of the modern theories of gaseous and metallic conduction, thermionics, photo-electricity, and X-rays. A brief introduction to the theories of atomic structure. Lectures and recitations three hours a week. Winter. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 251. (Offered in 1925-26 and alternate years.) **PARSONS.**

639. **ADVANCED MECHANICS.**—The Mechanics of solids, liquids and gases, using the calculus, and leading up to Lagrange's equations and the use of generalized coordinates. Spring. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 253. (Offered in 1924-25 and alternate years.) **PARSONS.**

PSYCHOLOGY AND PHILOSOPHY

PROFESSORS FRACKER, JEWELL, ASSISTANT PROFESSORS MAHAN, WEBER, MISS HAMILTON

Requirements for a Major in Psychology and Philosophy: Forty-five credit hours in psychology and philosophy. Students majoring in this department are advised to consult the Head of the Department concerning the group courses offered and also with reference to prerequisites and electives in other departments.

Other courses in Psychology are offered in the College of Education some of which are accepted toward a major and minor in this department. These courses include Genetic Psychology, Psychology of Adolescence, Psychology of Elementary School Subjects, Psychology of High School Subjects, Psychology of Teaching, and Advanced Educational Psychology. These courses offer excellent opportunity to the student who has pursued the foundational courses in psychology to continue his studies in pure and applied psychology.

Psychology

230. GENERAL PSYCHOLOGY.—A one-term review of the principles and facts of general psychology with discussion of their bearing upon technical professions. Open to students of the technical colleges only. Fall. FRACKER.

231 (232) (233) [formerly 241]. GENERAL PSYCHOLOGY.—A course in the fundamentals of mental life and behavior. Text book, lectures, demonstrations and experiments. This course is planned to give the student acquaintance with the fields, methods and facts of psychology. The psychological laboratory is being rapidly equipped with modern apparatus for demonstration and experiment and the library with full sets of psychological magazines and texts in psychology and philosophy. Prerequisite for further courses in psychology and required of four-year students in education. Open to sophomores. Three hours throughout the year. FRACKER, JEWELL, MAHAN, AND STAFF.

234 [Formerly 840]. VOCATIONAL PSYCHOLOGY.—A discussion of the psychological principles and methods of vocational guidance and tests and measurements used in vocational placing and the selection of employees. The personnel side of occupations, professions and avocations. Prerequisite: Elementary or General Psychology. Fall. FRACKER.

235 [Formerly 831]. PSYCHOLOGY OF ADVERTISING.—A study of the psychological principles that make the foundation of advertising, attention, interest, memory, conviction and action and the methods of their application to advertising in business, and the formation and maintenance of sentiment or morale through publicity; the applications of these to education, religion and public sentiment. Prerequisite: Elementary or General Psychology. Winter. Not offered in 1925-26. FRACKER.

331, 332, 333 [Formerly 641]. **EXPERIMENTAL PSYCHOLOGY.**—Three distinct term courses in Experimental Psychology. The work of each term will cover typical experiments in reaction, learning, perception, memory, imagery, emotion, sensation, and reasoning. Because of limited room the courses are restricted to twelve students each term. One lecture and two laboratory periods each week. **FRACKER AND ASSISTANTS.**

334. **PSYCHOLOGY OF THE ABNORMAL.**—The psycho-physical conditions and mental phenomena of illusions, hallucinations, dreams, sleep, automatisms, somnambulism, hypnotism, suggestion, dissociation, double and multiple personalities, and the insanities. Prerequisites: Elementary or General Psychology. Spring. **FRACKER.**

337. **PSYCHOLOGY OF RELIGION.**—The growth of religious consciousness in the individual rather than in the race. A consideration of the various phases of conversion, both for themselves and as elements of a spontaneous religious development. Prerequisite: Elementary or General Psychology. Spring. **JEWELL.**

430. **MENTAL MEASUREMENTS.**—The course includes a review of the origin and development of intelligence tests, attainment tests and then studies the scope, methods and results of mental testing. Prerequisites: General and one term of Experimental Psychology. **FRACKER, WEBER.**

436. **SOCIAL PSYCHOLOGY.**—An intensive study of the underlying psychological factors and principles involved in public opinion, sentiment, custom, imitation, personality, social will, conflict, and leadership. The application of these principles to the problems found in the mob, crowd, theatre, school, church, home, community, and society. Prerequisite: General Psychology and junior standing. Fall. **MAHAN.**

437. **INDIVIDUAL PSYCHOLOGY.**—The innate and acquired differences apparent among individuals. The contribution of near and remote ancestry, maturity, sex, and environment to individual differences. The methods of measuring and charting individual abilities in physical, mental, and social characteristics. Prerequisites: General Psychology, one term of Experimental Psychology, and Junior standing. Fall. **FRACKER.**

439. **INSTINCTS AND EMOTION.**—The rapid accumulation of evidence explanatory of instinct and emotion is reviewed and the implications of this data are examined to show the changes necessary in psychological explanation, educational, social, religious and business applications. Prerequisites: General Psychology, one term of Experimental Psychology, and Junior standing. Spring. **MAHAN.**

Philosophy

131. **INTRODUCTION TO REFLECTIVE THINKING.**—This course intends to present an analysis of the chief characteristics of reflective thought and of the ways in which reflective thinking operates in the major fields of knowledge. Its purpose is to acquaint the

student with the mental operations involved in the study of such subjects as mathematics, natural science, history, and the social sciences. It purports to examine the nature of hypotheses, classification, explanation, theory, inference, fact, etc. Open only to freshmen. Spring. MAHAN.

231. SOCIAL ETHICS. The ethical relationship of the individual to our social institutions, such as capital, labor, family, state, liberty, democracy, city, and country. Open only to sophomores. (Not given in 1925-26.) Fall. MAHAN.

232 [Formerly 532]. INTRODUCTION TO PHILOSOPHY.—A survey course in which the main fields of philosophy are mapped out, the permanent problems indicated, and the chief methods employed in their solution discussed. Open to sophomores. (Not given in 1925-26.) MAHAN.

530 (531) [Formerly 542]. ETHICS.—An analysis of the origin of morals, of typical moral theories, and of current moral problems. Open to sophomores. Fall and Winter. MAHAN.

532. THE DEVELOPMENT OF MORALITY. A comparative study of the rules of conduct and the ideals of life. The historical development of moral conduct as exhibited in the actual customs of people. Open to juniors. Fall. MAHAN.

533. AMERICAN PHILOSOPHY.—The philosophic interpretations of American life as expressed in theology, in social and political opinion, and more recently in technical philosophy, viewed in respect both to European sources and to the peculiar conditions and forces of American life. Spring. MAHAN.

534 [Formerly 545]. SOCIAL AND POLITICAL PHILOSOPHY.—Typical problems of social organization and progress, particularly from the standpoint of individualism and socialism, nationalism and internationalism, in their historic and current aspects. Such conceptions of social philosophy as justice, equality, property, and right will be studied with particular reference to present economic, industrial, and social conditions. Winter. MAHAN.

535 (536) [Formerly 540]. LOGIC.—The application of logic to the practical problems of every day life. It includes an analysis of inductive and deductive reasoning, of the nature of hypotheses, verification, scientific methods, etc. Open to sophomores. Winter and Spring. MAHAN.

537 [Formerly 543]. HISTORY OF GREEK PHILOSOPHY.—A survey of the history of philosophy from Thales to the Middle Ages. The relation of philosophy to Greek life as a whole, and an introduction to the more important systems of Plato and Aristotle. Open to Juniors. Fall. MAHAN.

538 [Formerly 544]. HISTORY OF MODERN PHILOSOPHY.—From Bacon to Kant. The relation of modern systems to scientific, literary, political, and social movements. Open to juniors. Winter. MAHAN.

539 [Formerly 545]. HISTORY OF NINETEENTH CENTURY PHILOSOPHY.—A non-technical survey of the philosophic and thought

movements of the last century: romantic idealism, evolution, transcendentalism, positivism, militarism, and socialism. Open to juniors. Spring. MAHAN.

PUBLIC SPEAKING

PROFESSOR JORDAN AND MRS. CROCKETT

English 131-2-3 or its equivalent is prerequisite to all courses in public speaking.

531 (532). FUNDAMENTALS OF SPEAKING.—Practice in the correct use of the body and voice in speaking and reading, accuracy of observation, and care in analysis. Fall and winter. JORDAN, CROCKETT.

533. EXTENSIVE PRACTICE SPEAKING.—Lecture and text-book work based on the principles of effective speaking, and training in both formal and informal address. Prerequisite: Public Speaking 531-2. Spring. JORDAN.

534. ELEMENTARY INTERPRETATION.—The student is trained to read aloud simply, easily, and naturally. Story-telling, one act plays, street oration, and dramatic interpretation. Prerequisite: Public Speaking 531-2. Spring. CROCKETT.

535. THE READING OF SHAKESPEARE.—Prerequisite: 531-2. Spring. CROCKETT.

536 (537). ARGUMENTATION.—The course aims to teach the principles of argumentation and afford practice in the application of these principles in frequent discussions and debates. Lectures, recitations, reading, and class exercises. Fall and winter. JORDAN.

538 (539). ADVANCED INTERPRETATION.—An advanced course in the interpretation of literature. Special attention given to the study of the dramatic monologue, various forms of literature and literary analysis. Prerequisite: 531-5 2 5.4. Fall and winter. CROCKETT.

540. INTER-COLLEGIATE DEBATE.—The question for inter-collegiate debate is studied and briefed, and frequent practice debates are held. Open only to students who have been awarded places on the inter-collegiate debating squad. Autumn. JORDAN.

541 (542) (543). PLAY PRODUCTION.—Plays are read aloud or put into rehearsal in order that students may vitalize the character and perceive reaction of one thought and emotion upon another. Frequent readings by the instructor from masterpieces of the drama. Public presentation of plays. The class is affiliated with the Drama League of America. Two terms required. May be taken for two, three or four hours credit. Prerequisite: 531-532, or the equivalent. CROCKETT.

735. PUBLIC SPEAKING FOR TECHNICAL STUDENTS.—A course in the preparation of speeches on scientific and technical subjects. Open only to juniors and seniors in the Colleges of Agriculture and Engineering. Winter. JORDAN.

ROMANCE LANGUAGES

PROFESSOR MARINONI, ASSOCIATE PROFESSOR KESSLER, ASSISTANT
PROFESSOR PASSARELLI, MR. SCHNURER

The courses are intended to give students a fair knowledge of the French, Italian, and Spanish languages and to stimulate knowledge and appreciation of the literary attainments of the Latin people. In the higher courses emphasis is laid especially on the study of literature. In order to give students an opportunity to become familiar with the spoken idioms, several advanced courses are conducted in the language which forms the object of study.

Requirements for a Major in Romance Languages: Fifty-four term hours to be chosen from the following courses, exact requirements to be arranged with the professor in charge: French 131 (132) (133), 231 (232) (233), 534 (535) (536), 537 (538) (539), and 631 (632) (633), 634 (635) (636); Spanish 131 (132) (133), 231 (232) (233); or Spanish 131 (132) (133), and Italian 131 (132) (133), 231 (232) (233). Major students, upon completing the required work, are expected to have a fair speaking knowledge of at least one language. They must also take course 630 offered by the Department of Ancient Languages. Students preparing to teach either French or Spanish in the secondary schools should complete at least 36 credit hours in the language chosen, and in addition include a course in the teaching of modern languages. Such students are urged to do at least one year of practice teaching in the University High School.

French

131 (132) (133). **ELEMENTARY FRENCH.**—Grammar, reading, dictation, and composition. Pronunciation is carefully taught and oral drill insisted upon. KESSLER, SCHNURER.

221 (222) (223). **INTERMEDIATE COMPOSITION.**—Prerequisite: 131-3. SCHNURER.

231 (232) (233). **FRENCH PROSE AND POETRY.**—Composition, sight reading, syntax, and conversation. Reading of representative works of modern French authors. Prerequisite: 131-133. KESSLER AND SCHNURER.

531 (532) (533). **FRENCH LITERATURE OF THE EIGHTEENTH CENTURY.**—Voltaire, Montesquieu, Rousseau, and Diderot. Lectures, recitations, and reports. Prerequisite: 231-233. Schnurer.

534 (535) (536). **FRENCH LITERATURE OF THE SEVENTEENTH CENTURY.**—A general view of the classic period. The most important literary productions are read and analyzed. Lectures and recitations in French, with a considerable amount of outside reading. Prerequisite: 231-233. MARINONI.

537 (538) (539). **FRENCH LITERATURE OF THE NINETEENTH CENTURY.**—Lectures and recitations in French, with readings

from the leading authors of the Romantic period. Prerequisite: 231-233. **MARINONI.**

514 (515) (516). **FRENCH DRAMA.**—The evolution of the French drama from its origin to the present day. Lectures and recitations in French, with outside reading. The permission of the instructor must be secured. Prerequisite: 634-636. **MARINONI.**

631 (632) (633). **ADVANCED FRENCH COMPOSITION.** **KESSLER.**

634 (635) (636). **A SURVEY OF FRENCH LITERATURE.**—Prerequisite: 231-233. **KESSLER.**

637 (638) (639). **BALZAC.**—The life and works of Balzac. Lectures and recitations. Prerequisite: 231-233. **MARINONI.**

Italian

131 (132) (133). **ELEMENTARY ITALIAN.**—Grammar, composition, dictation, and conversation. **PASSARELLI.**

231 (232) (233). **ADVANCED ITALIAN.**—Syntax, composition, conversation, and reading of representative modern works. The second term will be devoted to the study of Dante's *Inferno*. Prerequisite: 131-133. **PASSARELLI.**

Spanish

131 (132) (133). **ELEMENTARY SPANISH.**—Grammar, composition, dictation, conversation, and reading of easy texts. **MARINONI AND PASSARELLI.**

231 (232) (233). **ADVANCED SPANISH.**—Syntax, composition, conversation, and reading of representative modern works. Class work is conducted largely in Spanish. Prerequisite: 131-133. **MARINONI OR PASSARELLI.**

534 (535) (536). **SPANISH LITERATURE.**—Lectures, reports, and reading of standard works. Class work is conducted in Spanish. Prerequisite: 231-233. **MARINONI.**

537 (538) (539). **COMPOSITION AND CONVERSATION.**—Prerequisite: 231-233. **PASSARELLI.**

ZOOLOGY

***ACTING PROFESSOR DELLINGER, ACTING PROFESSOR WARREN, MRS. HOLCOMB, AND MRS. WARREN**

The courses in Zoology are designed to teach the fundamental facts of zoological science, including the laws of development, heredity, variation, and the economic importance of animals. They are essential to a thorough preparation for the study of agriculture, dentistry, geology, medicine, psychology, and sociology.

Requirements for a Major in Zoology: Forty-five credit hours, to include courses 141-143, 341-343, 641-643; the remainder may be selected from junior and senior courses. Students who expect to teach Biology in secondary schools should

*On leave of absence 1924-25.

take courses 141-143, 441-443, 631-633. Students preparing to study medicine or dentistry are advised to select courses 141-143, 341-343, 441-443, and 633.

141 (142) (143). **GENERAL ZOOLOGY.**—This course deals with the fundamental facts of zoological science, including the laws of development, heredity, variation, correlation, etc. Lectures and recitations two hours, laboratory and field work four hours. No prerequisite. Fee, \$2.50 each term. WARREN, MRS. HOLCOMB.

131. **NATURE STUDY (Local Fauna).**—Designed primarily for students desiring to teach and for those interested in the out-of-doors. Particular attention is devoted to the life histories and classification of the local animals. Lectures and recitations two hours, field trips three to four hours each week. Fee, \$2.50. MRS. WARREN.

142 (134). **GENERAL ZOOLOGY.** A brief course in the essentials of Zoology. Open only to students in the College of Agriculture. Winter and spring. Fee, \$2.50 each term. MRS. WARREN.

241 (242) (243). **HUMAN ZOOLOGY** (open only to women).—The anatomy and physiology of the mammalian body. This course is required of sophomores in Home Economics and in Physical Education. It is advised for all women students, since it includes a knowledge of the structure and function of the various organs of the human body. Lectures and recitations two hours, laboratory four hours. No prerequisite. Fee, \$2.50 each term. MRS. HOLCOMB.

341 (342) (343). **COMPARATIVE ANATOMY OF THE VERTEBRATES.** An advanced study of the structure and classification of vertebrates, with special reference to physiology. Lectures and recitations two hours, laboratory four hours. Prerequisite, 141-143. Fee, \$3.00 each term. MRS. HOLCOMB.

441 (442) (443). **ANIMAL HISTOLOGY AND EMBRYOLOGY.** Histology and histological technique, including preparation of slides and a study of normal mammalian tissues. Vertebrate embryology, with special reference to organogeny in the chick, pig, and man. Lectures and recitations two hours, laboratory four hours. Fee, \$3.50 each term. WARREN.

541 (542) (543) [Formerly 341 (342) (343)].—**GENERAL PHYSIOLOGY.** The general principles of human and animal physiology. Lectures and recitations two hours, laboratory four hours. Prerequisites: 141-143, and chemistry 141-143. Given in 1925-26 and alternate years. Fee, \$3.00 each term.

641 (642) (643) [Formerly 441 (442) (443)].—**MORPHOLOGY AND PHYLOGENY OF THE INVERTEBRATES.**—An advanced study of the taxonomy, ecology, and phylogeny of the free living and parasitic forms. Lectures and recitations two hours, laboratory four hours. Prerequisite: 141-143 and junior standing. Given in 1924-25 and alternate years. Fee, \$3.00 each term. WARREN.

631. **THEORETICAL BIOLOGY.**—Adaptation, heredity, organic

evolution, variation and some of the broader and more general problems of biology. Lectures and recitations three hours. Prerequisite: 141-143, or open to seniors with special permission. Fee, \$2.00.

633. HEREDITY AND EUGENICS.—Race improvement and the general principles of heredity as applied to man. Prerequisite: 631, or senior standing with special permission. Fee, \$2.00.

COLLEGE OF EDUCATION

The purpose of the College of Education is to unite and correlate the forces of the University which contribute to the preparation of educational leaders in teaching and supervision, whether rural, elementary, secondary, or executive.

The curriculum is based upon the assumption that teachers should have, first of all, and fundamental to all other preparation, a broad and liberal education; secondly, that they should be masters of the special subject they expect to teach; and, thirdly, that this training should be supplemented by professional courses designed to give them a knowledge of the minds of the pupils to be taught and the problems to be met, with a thorough course in practice teaching under experienced supervisors.

ADMISSION

For a statement of the entrance requirements and a description of the subjects accepted for entrance, see pages 23-32.

GRADE POINTS

Grade points are awarded on the following basis:

For grade A, 6 points for each hour.

For grade B, 4 points for each hour.

For grade C, 2 points for each hour.

For grade D, credit, but no points.

For grade E, 1 negative point for each hour.

For grade F, 2 negative points for each hour.

Students making D's or E's will be allowed by the University Examiner, subject to University regulations, to take make-up examinations. The grades made on these examinations, whether higher or lower than the original grades, together with the corresponding grade points, must be accepted by students taking such examinations.

In case of exemption from final examinations grade points will be granted as for the grade of B.

In order to graduate from this college, a student must have an average of two grade points on all University work submitted toward fulfilling the requirements for graduation.

COURSES OF STUDY

The College of Education offers a two-year course leading to the elementary teacher's certificate; a four-year course leading to the degree of *Bachelor of Science in Education* (B. S. E.); and graduate work leading to the degree of *Master of Science* (M. S.).

REQUIREMENTS FOR DEGREE *BACHELOR OF SCIENCE IN EDUCATION*

The candidate must meet the entrance, residence, and registration requirements, and must complete satisfactorily at least 201

term hours in approved courses, or 198 term hours in the teacher-training course in Vocational Home Economics, with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; Education 28 hours, including Educational Principles 111 (112) (113), 233; Educational Administration 230, 337; Educational Methods 231, 350; Military Art (for men), or Physical Education (for women) six hours.

2. Elective courses to be chosen from the following groups with the restrictions noted below:

Group 1 English, Public Speaking, French, German, Greek, Italian, Latin, and Spanish.

Group 2 Astronomy, Botany, Chemistry, Geology, Mathematics, Physics, and Zoology.

Group 3 Economics, Education, History, Political Science, Philosophy, Sociology, and Home Economics.

Group 4 Agricultural subjects, Bible, Engineering subjects, Fine Arts, Law, Medicine, Military Art, and Physical Education.

(a) The candidate may elect not more than 60 hours from any one subject and not more than 120 hours from any one group, except by special permission of the dean of the college.

(b) The candidate must select, not earlier than the beginning of his sophomore year and not later than the beginning of his junior year, one major subject, in which he must complete at least 45 credit hours and two minor subjects, in which he must complete at least 27 and 18 credit hours, respectively, subject to the approval of the head of the department and the dean of the college. The major subject in every case shall be chosen from the group in which the student finds the subject matter he is preparing to teach. A description of the major requirements of each department will be found under the departmental statements.

(c) The candidate preparing to teach subject matter found in Groups 1, 2 and 3, respectively, must elect not less than 27 hours from Group 1 and 54 hours from Groups 2 and 3 combined, with not less than 18 hours from either Group 2 or 3.

(d) Students who find their major or minor in Group 4 should in every case consult with the dean and the heads of the departments concerned regarding their courses of study.

(e) The College of Education gives full credit for work in music, i. e., one hour of credit is given in each term for courses 111 to 119, inclusive. However, one year in piano, violin, or voice must be completed in college before the student may enroll for credit in that subject. This does not apply to pipe organ, which has piano as a prerequisite. No credit is allowed unless the student takes at least two lessons a week.

(f) Students registering in college for a beginning course in any foreign language must take not less than two years of work in that language to receive credit for it toward graduation.

(g) Freshmen will be expected to continue in college work in some department other than English, in which have been submitted entrance credits.

(h) If the student is expecting to become a secondary school teacher or an administrator, he will conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	Credit Hours
English 131 (132) (133).....	9
Educational Principles 111 (112) (113).....	3
Physical Education or Military Art 111, 112, 113.....	3
Foreign Language, Science or Mathematics.....	12
Electives.....	21
	48

Sophomore Year

Psychology 211 (212) (213).....	9
Educational Administration 230, Methods 231, Principles 233.....	9
Physical Education or Military Art 211, 212, 213.....	3
Electives.....	26
	51

Junior Year

Educational Administration 337.....	3
Special Methods Course.....	1
Electives.....	46
	51

Senior Year

Educational Methods 350—five hours each for two term.....	10
Electives.....	41
	51

MASTER OF SCIENCE

Regulations governing this degree are outlined on page 50 under the heading "Obligations Work and Advanced Degrees."

REQUIREMENTS FOR A TEACHER'S CERTIFICATE

The teacher's certificate of the University of Arkansas is granted in accordance with a state law which reads:

"That the diploma from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue."

The State Board of Education no longer grants a life certificate.
*Note I.—These electives must include the major and minor subjects, chosen not later than the beginning of the junior year.

Note II.—If, during the freshman year, a foreign language other than one submitted for entrance credit, be elected, it must be continued throughout the sophomore year.

Note III.—In certain cases practice teaching may be begun during the last term of the Junior year.

tificate to any person of whatever qualifications. The professional certificate issued by the College of Education will be re-issued, however, for another period of six years provided that the character of the teaching during the first six years was of a high grade, and that his or her moral character shall meet with the approval of the superintendent of Public Instruction of the State of Arkansas.

In accordance with this law, the University of Arkansas grants a certificate valid in any elementary school in the state for the completion of a two-year course outlined on the following pages. It also grants teachers' certificates valid in any high school in the state on the completion of the four-year course outlined on the preceding pages.

The only degree given by the University of Arkansas which in itself entitles the holder to teach in the schools of this state, or of other states requiring professional preparation of its teachers, is the degree of Bachelor of Science in Education. Graduates holding other degrees are required to pass examinations for teachers' certificates, unless they also have certificates granted by the College of Education for not less than 25 to 28 hours of professional work, which must include the requisite courses.

A student who intends to take a degree in another college of the University should register in that college. If, in addition, he expects to take the teacher's certificate in the College of Education, he must also be registered in the College of Education during the terms in which he is doing his professional courses.

Students in other colleges, who expect to receive the teacher's certificate at some time in the college course, are advised to consult with the dean of the College of Education not later than the end of the freshman year.

Course for Secondary Teachers

Students preparing to teach in high schools will spend at least two years taking academic courses in the subjects they wish to teach. Not earlier than the junior year they will take a special methods course which is offered only once each year and which must be taken prior to the term in which they expect to begin their practice teaching. It is no longer possible to place in a fully accredited high school a teacher who lacks a degree from a standard college or university. No high school accredited by the North Central Association of Colleges and Secondary Schools, as all the better high schools of Arkansas are, will employ any teacher who lacks 23 term hours of Education as a part of his college work.

Course for Elementary Teachers

Students wishing to teach in the elementary grades must be registered in the College of Education during both the fresh-

man and sophomore years. On the completion of the elementary teacher's course they will be given an Elementary Teacher's certificate, good for the same length of time as the teacher's certificate given for the completion of the four-year college course, but entitling them to teach in the grades only. This course can be completed at the end of the sophomore year. It is so arranged that students may return and secure their Bachelor's degree after the completion of the junior and senior years of college work.

Students transferring to the University of Arkansas from other institutions should note that unless they have completed in the first year approximately the same schedule of work as that listed below it will probably take them two years in the University of Arkansas to obtain the Teacher's Certificate, for much of the work in the first year of the course is prerequisite to practice teaching in the second year.

Candidates for the Elementary Teacher's Certificate will conform as closely as possible to the following schedule in the distribution of their work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131 (132) (133).....	3	3	3
Educational Psychology 131 (132).....	3		
Educational Methods 131 (Technique of Instruction).....		3	
Educational Principles 132 (Prin. Elem. Educ.).....			3
Primary Methods.....	3	3	3 or 2
Nature Study (Botany or Entomology).....			3
Electives	6	3	3 or 4
Physical Education.....	1	1	1
	16	16	16

Sophomore Year

Educational Methods 350.....	5	5	
Electives	11	11	16
Physical Education.....	1	1	1
	17	17	17

Note.—Every student taking this course is strongly urged to take Public School Music during one year of the course and Normal Art during the other. Graduates of the course lacking these subjects can not be recommended for the better and more desirable positions.

Practice Teaching

Opportunity for practice teaching in practically all the elementary and secondary subjects, as well as Agriculture, Home Economics, Manual Training, and Physical Education, is provided in the University Training School. General Psychology 231 (232) (233), Technique of Instruction (131 or 231), Classroom Administration (130 or 230), either Principles of Elementary Education (132) or Principles of Secondary Education (233), and a special methods course are prerequisite to

practice teaching. Students should determine as early as possible subjects which they desire to teach and should prepare themselves thoroughly in those fields. No student shall be assigned to practice teaching unless he has made special preparation in the work for which he is applying.

All assignments to classes are made by the Director of the Training School. Before registering for teaching, students must consult with him and submit, in addition to a recommendation from the department in which special preparation has been made, a statement from the Registrar of the courses completed in Education and in the academic subject which the student proposes to teach. Special blanks for this purpose may be secured at the office of the Director of the Training School.

Recommendation Bureau

The College of Education maintains a Recommendation Bureau, the purpose of which is to place properly in teaching positions those of its students and graduates whose teaching ability is satisfactory to the faculty of this college and whose major preparation center in this recommendation. Since such recommendations are worthless unless based on personal knowledge, the Bureau manifestly cannot place its services at the disposal of teachers who know nothing, whose teaching ability the members of the staff of education know nothing. It is still possible to find positions for primary and grade teachers who possess a certificate given at the close of two years of college work. It is not possible, however, to place high school teachers in good positions unless they have earned a college degree. Every year there are many more requests for teachers than there are graduates available. Graduates need not leave the state to secure important positions at good salaries. Students looking forward to teaching in other states should, however, confer with the dean as to the requirements for teaching in such states. In general the requirement is a minimum of 27 term hours of professional work following a course in general psychology.

VOCATIONAL TEACHER TRAINING

Agricultural Teacher's Training Course

The University of Arkansas maintains a Department of Agricultural Education, which has for its function the training of young men for positions as agricultural instructors in the various Smith-Hughes schools in the state. The courses given by the Department have been approved by the Federal Supervisor in charge of the Southern District, as well as by the State Supervisor in charge of Vocational Agricultural Education.

A candidate for admission to courses leading to the certifica-

tion for Vocational Agricultural instruction must present 15 units of high school work, or the equivalent. Further, he must have had at least two years of practical farm experience after he has become 14 years of age, or he must acquire such experience as a part of his training.

The work done by the student in the first two years of his course is the same as that done by other students in the general agricultural course. At the beginning of the third year, he shall register both in the College of Agriculture and in the College of Education. He may then take his degree in the College of Agriculture and in the College of Education. He may then take his degree in the College of Agriculture, along with a Teacher's Certificate in the College of Education, or he may take his degree in the College of Education with Agricultural Education as a major.

Students expecting to teach Agriculture should consult with the Professor of Agricultural Education in regard to the arrangement and selection of courses not later than the beginning of the junior year, and earlier if possible.

The course consists of 201 or 210 term hours of work, depending upon whether the student graduates from the College of Education, or from the College of Agriculture. Part of the requirements must be in scientific work in Agriculture, in addition to which there is required from 25 to 28 term hours in professional subjects, including Practice Teaching.

The following professional courses are required:

Educ. Psych. 336—Psychology of Teaching.....	3 term hours
or	
Educ. Psych. 131 (132)—Educational Psychology.....	6 term hours
Educ. Meth. 231—The Technique of Teaching....	3 term hours
Educ. Prin. 233—Principles of Second Educ....	3 term hours
Agri. Educ. 431—Materials and Methods....	3 term hours
Agri. Educ. 333—Vocational Agri. Educ.....	3 term hours
Educ. Meth. 350—Practice Teaching (2 terms)	10 term hours

Educational Psychology 336 will be offered regularly in the fall term and is open to juniors in the College of Agriculture. Should it be impossible for trainees to take this course, it will be necessary for them to substitute the 6-hour course in Psychology, as indicated above.

Home Economics Teachers' Training Course

(For the first two years, see College of Agriculture)

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers of Vocational Home Economics in the Smith-Hughes Vocational Schools.

	Credit Hours
Agri. Engr. 325.....	2
Bacteriology 352.....	5

	Credit Hours
Educ. Admin. 230 (Class Room Administration).....	3
Educ. Admin. 337 (Tests and Measurements).....	3
Educ. Meth. 231 (Technique of Teaching).....	3
Educ. Meth. 350, 351 (Practice Teaching).....	10
Educ. Meth. 352 (Home Economics Methods).....	5
Educ. Prin. 233 (Principles of Secondary Education).....	3
English 531, 532, 533 (Outlines of Literature) or	
English 331, 332, 333 (Composition and Public Speaking) or	9
Journalism 537, 538, 539	
Home Economics 334, 335, 336 (Dietetics).....	9
Home Economics 351 (Household Management).....	5
Home Economics 431, 432 (House Planning and Furnishing).....	6
Home Economics 433 (Social, Legal and Economic Position of Women)	3
Sociology or Economics	3
Electives	27
Total	96

COURSES IN PHYSICAL EDUCATION

Complete four-year courses in physical education, for the preparation of instructors in this line of work, are in course of preparation. In the meantime the five instructors in the department are offering courses in the theory of coaching and in the teaching of physical education. Students who are prepared for it may do practice teaching in one or another of the various lines of physical education under the supervision of the University coaches.

CREDIT HOURS

The number of credit hours allowed in each course is identical with the number of hours of lecture or recitation a week through the term; in laboratory, shop, or field work two or three hours are considered as equivalent to one hour of lecture or recitation.

Requirements for a Major in Education: Forty-eight credit hours including General Psychology, Principles of Education, Teaching Process, Principles of Secondary Education, Secondary Tests and Measurements, Educational Psychology, and Practice Teaching.

Specialization Requirements: Prospective teachers should decide as early as possible the field in which they wish to teach, and prepare themselves accordingly. In general, students will not be recommended for teaching positions in a particular field unless they have pursued the following courses or their equivalents in that field:

1. Junior and Senior High School Teachers—Requirements must be satisfied for a major in the department or departments in which the student expects to teach. It frequently proves a decided advantage to a student to take the courses suggested for those expecting to teach, in two different departments. These should also include the special

- methods courses. Courses in Education to be pursued: Educ. Meth. 231; Educ. Prin. 233, 320, 332; Educ. Admin. 230, 337; Psych. 231 (232) (233); Educ. Psych. 338, 339.
2. Elementary School Principals—Courses in Education to be pursued: Educ. Meth. 131 or 231, 232; Educ. Prin. 142, 320; Educ. Admin. 130 or 230, 231, 334, 360; Educ. Psych. 131 (132), 230, 239, 338.
 3. High School Principals—Courses in Education to be pursued: Educ. Meth. 231; Educ. Prin. 231, 320, 332; Educ. Admin. 230, 330, 331, 334, 337; Psych. 231 (232) (233); Educ. Psych. 338, 339.
 4. Superintendents and Supervisors—Courses in Education to be pursued: Educ. Meth. 231; Educ. Prin. 233, 320, 332; Educ. Admin. 230, 330, 331, 334, 337; Psych. 231 (232) (233); Educ. Psych. 230, 239, 338; and Research Courses.
 5. College Teachers of Education—Courses in Education to be pursued: Educ. Prin. 321; Educ. Admin. 231, 320, 330, 331, 333, 334, 335, 336, 330; Psych. 231 (232) (233); Educ. Psych. 230, 239, 338; and Research Courses.

DEPARTMENTAL STATEMENTS

For an explanation of the course notation see page 48

AGRICULTURAL EDUCATION

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Education)

ASSISTANT PROFESSOR HOLLOWAY

333. VOCATIONAL AGRICULTURAL EDUCATION. The development of agriculture and agricultural education; legislation fostering agricultural education; a study of the state program of work; responsibility to State and Federal forces; reports and records; administrative features of the work. Prerequisites: Ed. Psych. 338 and Ed. Prin. 233. Winter. HOLLOWAY.

431. MATERIALS AND METHODS IN AGRICULTURAL EDUCATION.—A study of such topics as: The farm and community survey; determination of course of study; the job analysis method of instruction, with special emphasis placed on lesson planning; selection of enterprises; laboratory and shop methods; selection of proper reference material and its use. Prerequisites: Ed. Psych. 336 and Ed. Method 231. Fall and Spring terms. HOLLOWAY.

411. SEMINAR.—A one-hour course in which special problems will be assigned. Given upon request. HOLLOWAY.

480. PROBLEMS IN VOCATIONAL AGRICULTURAL EDUCATION.—A research course pertaining to problems of instruction, administration and supervision in Vocational Agricultural Education open to Seniors and graduate students. Research problems may be carried over two or more terms; and a maximum of eight

term hours of credit may be made. Prerequisite: Educ. Meth. 350. HOLLOWAY.

EDUCATIONAL ADMINISTRATION

PROFESSORS CADE, JEWELL, REINOEHL, WEBER

130. CLASSROOM ADMINISTRATION—ELEMENTARY.—A constructive study of problems in school organization and management for the classroom teacher. Emphasis upon fundamental principles for guidance in dealing with these problems. The course includes such topics as physical care of children, school equipment and supplies, school records and reports, child accounting, sanitation, handling routine, program making, time economy, government and discipline, problems in grading and promoting, and the teacher's relationships and responsibilities. Fall. REINOEHL.

230. CLASSROOM ADMINISTRATION—SECONDARY.—A course in administrative problems that center on the work of the high school teacher, with emphasis upon typical projects. The course includes such topics as securing a position, orientation, and adjustment; organization and management of classroom work; textbooks, equipment and supplies; attendance, records and reports; schedules and routine factors; measurement and ability grouping; pupil health, government, guidance, and promotion; extra-curricular responsibilities; and relationships with others in the scheme of public education. Readings, problems, and observation work. Fall. WEBER.

231. ELEMENTARY TESTS AND MEASUREMENTS.—Standard tests and scales for the measuring of educational attainments in the elementary schools. Practice in applying tests in oral and silent reading, penmanship, arithmetic, spelling, etc. Prerequisite: Educ. Adm. 130 and Educ. Meth. 131. Fall. CADE.

320. EDUCATIONAL SURVEYS.—A study of typical school surveys, in state, city, and county. Aims, methods of conducting, results. Collecting, tabulating and interpreting data. Presenting the report to teachers and to the public. Survey of a school as a concrete class project. Prerequisite: Nine hours in Education. (Offered in 1924-25 and alternate years.) Fall. REINOEHL.

330. STATE SCHOOL SYSTEMS.—A comparative study of typical state school systems with special reference to Arkansas' Educational organization. The state in relation to school officials, qualifications of teachers, child accounting, textbooks and courses of study, building and grounds, records and reports, testing programs, inspection and supervisory services, school finance, and school law. Work of the National Bureau of Education and Federal aid to the states included. Reference readings, discussions, and reports. Prerequisite: Nine hours in Education. Fall. REINOEHL.

331. RURAL EDUCATION.—The distinctive features of a modern

county school system. Noteworthy examples of reorganized schools and of rural service. Study of such topics as school consolidation, the teaching equipment, the new curriculum, attendance, local surveys, school funds and budgets, school records, reports and educational publicity. For prospective county superintendents, normal training teachers, principals of rural consolidated schools, and for teachers of agriculture and home economics who are constantly being drawn upon to assume positions of leadership in these schools. References, discussions, and reports. Prerequisite: Nine hours in Education. (Offered in 1924-25 and alternate years.) Winter. REINOEHL.

333. COMPARATIVE SCHOOL SYSTEMS.—The outstanding features of the school systems of France, Germany, England, Denmark, Switzerland, and the United States. Planned for those interested in the working out of the curriculum and a better supervision of the schools. The changes in education that the Great War has brought to England and Germany, and its probable effect on the United States, are largely emphasized. Textbook, lectures, and references. (Offered in 1924-25 and alternate years.) JEWELL.

334. THE PRINCIPAL AND HIS SCHOOL.—A practical course, dealing with the problems of organization and administration of a single school, the supervision of instruction, school extension and community relationships. For prospective building principals of ward schools, of town and village schools, and of consolidated schools. Textbooks and reports. Prerequisite: 12 hours in Education. Open to teachers of wide experience. Spring. REINOEHL.

335. CITY SCHOOL ADMINISTRATION.—Major Topics: Evolution of city districts; the school plant; administrative organizations; boards of education; the city superintendent; the teaching staff; classification and promotion of pupils; student activities; school accounting, budgets and reports; educational publicity. Prerequisite: 12 hours in education. Open to teachers of wide experience. Textbook, discussions, reports. (Offered in 1925-26 and alternate years.) Winter. REINOEHL.

336. SCHOOL SUPERVISION.—The supervisory aspects of school administration. Development of supervision; present status; methods and plans; class schedules; organizing teaching materials; criticism of instruction; supervised study; supervisory devices; economy and effectiveness in teaching; measuring results. References, discussions, reports. Prerequisite: 12 hours in Education. Open to teachers of wide experience. Spring. REINOEHL.

337. SECONDARY TESTS AND MEASUREMENTS.—Desirable outcomes of the different high school subjects; a critical survey of available high school tests and scales; the technique of giving, scoring, tabulating, presenting, and interpreting the results; the use of standard tests in experimentation, classification and diagnosis. Each member of the class will be given actual practice

in the application of some standard test. Prerequisites: Psychology 231 (232) (233), and Educational Principles 233. Fall. WEBER.

433. SEMINAR IN SCHOOL ADMINISTRATION.—A research course dealing with vital problems in school administration chosen by the student for careful investigation and report. Prerequisite: Twelve hours in school administration. From one to three hours credit. Any term. REINOEHL.

530. STATISTICAL METHODS IN EDUCATION.—A practical study of the scientific methods of compiling, organizing, and interpreting educational data. The solution of concrete problems illustrating measures of central tendency, dispersion and relationship. Use of index numbers. Tabulations and graphic representation of data. Prerequisite: Nine hours in Education. (Offered in 1925-26 and alternate years.) Fall. REINOEHL.

535. THE JUNIOR HIGH SCHOOL.—Designed to give high school teachers and principals a knowledge of the junior high school and its organization. Topics: Need for the junior high school; curricula and programs of study; discipline and social organization; selection of teachers; homogeneous grouping; school tests and intelligence tests; bases for admission and promotion. Prerequisite: Educational Administration 230, Educational Methods 231, Educational Principles 233, or equivalent. Spring. WEBER.

580. EDUCATIONAL PROBLEMS.—A research course pertaining to problems of instruction, administration, and supervision. Open to seniors and graduate students. Research problems may be carried over two or more terms and a maximum of eight term hours credit may be made in this course. Prerequisite: Educational Methods 350. CADE.

EDUCATIONAL METHODS

PROFESSORS CADE, REINOEHL, WEBER, ASSISTANT PROFESSORS SHOWALTER, HOLLOWAY, MISS ARMSTRONG, MISS BLAIR, MISS BUNKER, MRS. PARMELEE, MRS. TAYLOR, MISS WEADOCK

121. NUMBER AND SCIENCE FOR PRIMARY GRADES.—Organization of subject matter and methods of presentation. Recitation, reference reading, and observation. Spring. ARMSTRONG.

124 (125) (126). PUBLIC SCHOOL MUSIC.—Sight reading developed by use of tonic sol-fa system and study of standard school music text. Ability to sing, write and play simple one, two and three-part melodies suitable for the graded school. This includes a knowledge of scales, keys, intervals and common triads, note values, measure signs, etc. MRS. PARMELEE.

224 (225) (226). PUBLIC SCHOOL MUSIC.—A course in methods of teaching music in public schools. Opportunity for observation and actual demonstration of method is given. Pre-

requisite: Public School Music 124 (125) (126). MRS. PARMELEE.

130. HISTORY FOR PRIMARY GRADES.—Selection and organization of materials, and methods of presentation. Lectures, recitation, reference reading, and observation. Fall. ARMSTRONG.

131. TECHNIQUE OF TEACHING.—Modern methods of teaching in elementary schools. Major topics are nature of the teaching process and factors conditioning it, types of classroom procedures and planning them, skillful questioning, assignments, directed study, and methods of determining the effectiveness of the teaching act. Winter. REINOEHL.

139. ENGLISH FOR PRIMARY GRADES.—The teaching of literature, reading, composition, spelling, and penmanship. Lectures, recitation, reading, and observation. Winter. ARMSTRONG.

231. TECHNIQUE OF TEACHING.—Modern methods of instruction common to all subjects in the secondary school curriculum, and the scientific principles underlying artistic teaching. The major topics taken up are: Projects, problems, and perceptual aids in education; directed study and the use of the library; types of teaching procedures; skillful questioning; measurement of achievement; differentiated assignments; interests and motivation; and the teacher's personality. Readings, problems, and observation work. Winter. WEBER.

232. PROJECT METHOD OF TEACHING.—Pedagogical principles underlying this method; the different types of projects; concrete material that has been worked out in the classroom; the fields in which the project may originate; the significance of the project in large units of study; outcomes of projects checked against subject matter outlined in the course of study. Prerequisites: Educational Methods 231, Educational Principles 233, Psychology 231 (232) (233). Winter. SHOWALTER.

331. TEACHING OF FOREIGN LANGUAGES.—The principles involved in the teaching of languages; methods of teaching pronunciation; grammar and composition. Examination of textbooks and collateral material to form a basis for organizing courses of study suitable for different localities. Prerequisites: Not less than two years in some foreign language and Educational Methods 231, Educational Principles 233, and Psychology 231 (232) (233). Spring. WEADOCK.

332. PRINCIPLES AND TECHNIQUE OF NATURAL SCIENCE TEACHING.—The history and development of the science teaching movement, aims, purposes and values of science study, selection and organization of subject-matter, applications of the findings of modern psychology to science teaching, adaption to individual differences and the needs of special groups, planning of lessons, tests and examinations, care and management of the laboratory and laboratory records, sequence of various science courses and their relation to the curriculum as a whole. Directed study in connection with the solution of problems based on pupil needs. Prerequisites: Psychology 231 (232)

(233). Educ. Admin. 230, Educ. Meth. 231, Educ. Prin. 233, and at least 30 term hours of college science, approximately half of which should be in the field of biological science and half in the field of physical science. Spring. SHOWALTER.

333. TEACHING OF ENGLISH.—The aims, methods, and results of teaching English in high school. Prerequisites: Educ. Meth. 231, Educ. Prin. 233, Psychology 231 (232) (233), and English 531 (532) (533). Winter. BUNKER.

334. TEACHING OF HISTORY.—The materials of history and the practical problems of teaching the subject in secondary schools. Prerequisites: Educ. Meth. 231, Educ. Prin. 233, Psychology 231 (232) (233), and History 131-133. Fall. BUNKER.

335. TEACHING OF MATHEMATICS.—Algebra and Geometry; educational value; position in course; methods of teaching (both American and foreign); order and importance of topics; textbooks and literature. Lectures, discussions, and reports. Prerequisites: Educ. Meth. 231, Educ. Prin. 233, Psychology 231 (232) (233), and Mathematics 155-157. Spring. BLAIR.

350. PRACTICE TEACHING.—Daily teaching of one period in the Training School in practical application of the principles of instruction. Teachers' meeting one hour a week. (In Home Economics this course is called Education 350-351, and has Home Economics 352 as a prerequisite.) Prerequisites for teaching in the High School: Educ. Meth. 231, Educ. Prin. 233, and Psychology 231 (232) (233). ARMSTRONG, BLAIR, BUNKER, CADE, HOLLOWAY, SHOWALTER, TAYLOR, WEADOCK.

352. TEACHING OF HOME ECONOMICS.—Development of the home economics movement. Place of home economics in secondary schools. Vocational home economics. Planning courses, methods of presentation, laboratory management, home projects. Prerequisites: Home Economics 331, 332 and 234-236; Educ. Meth. 231, Educ. Prin. 233, and Psychology 231 (232) (233). Spring. TAYLOR.

531. VISUAL AIDS IN EDUCATION.—Lectures, readings, discussions, experiments, and demonstrations on the use of visual aids in the classroom. More specifically: (a) Psychological principles underlying the use of visual aids in education, (b) Types of visual aids and their comparative effectiveness, (c) Administrative problems, expense, availability, method of circulation, (d) Picture projection technique, and (e) Special methods in the various school subjects. Course offers rich opportunities for project work. Spring. WEBER.

EDUCATIONAL PRINCIPLES

PROFESSORS JEWELL, WEBER, REINOEHL, FRACKER

111 (112) (113). INTRODUCTION TO EDUCATION.—An introduction into the main problems of public education in a democracy. First, a study of the progress made in the scientific study of education, including those skills, knowledges, tastes, and ideals

demanded in modern life, and the instinctive equipment of the child which may be used to acquire these ends. Second, the laws of learning and thinking. Third, a brief historical tracing of the genesis of educational theory and practice. JEWELL.

132. PRINCIPLES OF ELEMENTARY EDUCATION.—Principles of education as they affect the work of the elementary school. Objectives of the school, selection and organization of teaching materials, minimal essentials, fundamental laws of learning in relation to natural normal teaching procedures, motivation, satisfying individual and group needs, extra-curricular activities, developing responsibility, and standardization of school work. Spring. REINOEHL.

134. SCHOOL HYGIENE.—Problems of school hygiene, including heating, lighting, ventilating, school diseases, medical inspection of schools, and hygiene of various school activities. Lectures and references. Fall. JEWELL.

233. PRINCIPLES OF SECONDARY EDUCATION.—Higher considerations of modern educational theory and practice from the view point of the high school teacher. A critical study of the pupil, the teacher, the curriculum, and the school as a social institution. Topics treated are: Physical and mental traits of pupils, individual differences, their causes and implications; reorganization, and the junior high school; teacher improvement in service, and educational associations; courses of study, and the selection of subject matter; the curriculum, and extra-curricular activities; history of secondary education, and present educational statistics; functions, aims, and objectives of the secondary school; democracy, the school, and human progress. Readings, problems, and observation work. Spring. WEBER.

332. PROBLEMS IN SECONDARY EDUCATION.—For prospective secondary school principals and supervisors, and closely related to Education 233. The course deals with school statistics; standardization; test building; teacher rating; visual aids, and equipment; improvement of instruction; curriculum revision; ability grouping; junior high school education; extra-curricular activities; records and pupil progress; school publicity; social-moral training; mental hygiene, etc. Course offers opportunities for individual and group projects of a practical nature. Prerequisite: Psychology 231 (232) (233) or equivalent and Educational Principles 233. Winter. WEBER.

334. PEDAGOGY OF RELIGION.—A course dealing with the educational principles of religious work. The problems are attacked through the administrative, curriculum and methods standpoints, and the educational viewpoint of religious work is followed. Prerequisites: Educational Psychology 131 (132) or Psychology 231 (232) (233), and six hours of Psychology in addition. Spring. FRACKER.

430. SEMINAR IN SECONDARY EDUCATION.—A research course in special problems in secondary education, pertaining preferably to Arkansas. Administration, supervision, experimentation, in-

vestigation, statistics, etc. Prerequisites: Educational Administration 230, Educational Methods 231, Educational Principles 233, or equivalent. Offered any term. WEBER.

EDUCATIONAL PSYCHOLOGY

PROFESSORS JEWELL, FRACKER, WEBER, CADE

Besides the courses in Psychology appearing below, students are offered other courses in Psychology in the College of Arts and Sciences.

131 (132). *ELEMENTARY PSYCHOLOGY*.—A course in general Psychology designed *only* for students in two-year primary teachers course. Open to freshmen. Fall and winter. FRACKER.

239. *PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS*.—The psychological processes involved in the learning of reading, writing, arithmetic, history, and geography. The laws of habit formation applied in arranging the material. Prerequisite: Educ. Psych. 131 (132) or Psych. 231 (232) (233). Winter. CADE.

230. *GENERIC PSYCHOLOGY*.—An intensive study of the development of the mind from childhood to adolescence, with a consideration of the arguments for and against the recapitulation theory. A careful interpretation of both heredity and environmental influences in their bearing upon education in the home and in the school. Prerequisite: Educ. Psych. 131 (132) or Psych. 231 (232) (233). Fall. JEWELL.

335. *PSYCHOLOGY OF HIGH SCHOOL SUBJECTS*.—A psychological analysis of high school subjects with the object of determining the mental processes involved in studying them; review of experimental studies; criticism of methods of instruction. Prerequisites: Educ. Psych. 131 (132), or 231 (232) (233) and Education 233. Winter. WEBER.

330. *PSYCHOLOGY OF TEACHING*.—Especially for students in the various Smith-Hughes courses, dealing with the topics usually studied in General Psychology, but always with reference to the learning process. Very practical, and the application of the laws of psychology to teaching will be stressed. Fall. JEWELL.

338. *ADVANCED EDUCATIONAL PSYCHOLOGY*.—The types and laws of learning are critically evaluated. A study is made of the variations in learning due to practice, methods, fatigue, and interest. Prerequisite: Educ. Psych. 131 (132) or Psych. 231 (232) (233). Spring. FRACKER.

339. *PSYCHOLOGY OF ADOLESCENCE*.—The important physical, mental, and moral changes natural to adolescence. Of special interest to all who have to deal with boys and girls of high school age. Attention given to laying the foundation for the pedagogy of secondary instruction. Prerequisite: Educ. Psych. 131 (132), or Psych. 231 (232) (233). Winter. JEWELL.

PHYSICAL EDUCATION

PROFESSOR SCHMIDT, ASSISTANT PROFESSOR SHALEY,
MR. CRANGLE, MISS MANSFIELD, MR. FARRIS

For Men

These courses have not been prepared for the general student body, but for players and for those whose business or pleasure it may be to instruct players or teams, the idea being to train men to fill the demand for athletic coaches in the institutions of learning throughout the state. The work will consist partly of lectures and partly of demonstrations. The courses are not open to freshmen.

225. *MASSAGE AND BANDAGING.* This course will treat on massage and athletic rubs, bandaging and taping, treatments of injuries, infections, fractures and dislocations. Applied anatomy and physiology. Diet and miscellaneous training suggestions. Winter. CRANGLE.

231. *THEORY OF FOOTBALL.*—Standard systems of offensive and defensive methods; approved play for each position of line, ends, and backfield; generalship and strategy; the relative value of kicking, passing, and running; regular and open formation; signal systems; conditioning and training of team; equipment; a study of the rules from the standpoint of coaching, playing, and officiating. Frequent and regular demonstrations on the field of blocking, tackling, passing, punting, place and drop kicking, drills for linemen and backs, tackling dummy and charging sled, fundamentals emphasized. Spring. SCHMIDT.

232. *THEORY OF BASKETBALL.*—To aid and benefit those desiring to coach basketball. Emphasis will be given to team play, characteristics of the different positions, passing, catching, and dribbling the ball, goal shooting, pivoting and dodging, offensive and defensive systems, consideration of the different styles of play used by leading coaches, conditioning a team, study of the rules. The principles and ideas brought out in the theory of class will be demonstrated and practiced. Winter. SCHMIDT.

233. *THEORY OF FIELD AND TRACK.*—Form and method of starting, finishing, sprinting, distance-running, hurdling, high and broad jumping, pole vaulting, weight events, shot put, discus, hammer, and throwing the javelin, relay racing; a suggestive course of training and conditioning for each event. Lectures on diet, massage; rules of competitions; suggestions on the conduct and management of athletic meets. Each event discussed in theory class will be practiced on the track and field. Winter. SCHMIDT.

234. *THEORY OF BASEBALL.*—The theory and fundamentals of the national game as a science as well as an art. Special attention to battery work, pitching, strategy, delivery, the proper method of filling each position; team play, coaching methods.

study of the rules. Demonstration and practice of the principles discussed in theory class. Winter. CRANGLE.

For Women

Minor in Physical Education

The minor in physical education for women enables students to specialize in the subject, even though they do not adopt it as a major. Provision is thus made for students to qualify themselves to teach physical education in connection with academic subjects in the high schools.

In order to minor in physical education for women, a student must have completed the following courses in addition to his regular freshman and sophomore work:

	Credit Hours
Technique of Sports 214, 215, 216 (any two)...	2 hours
Games 221.....	2 hours
Elementary Folk Dancing 222.....	2 hours
Practical Hygiene 223.....	2 hours
Elementary Natural Dancing, 217, 218, 219.....	3 hours
Principles of Physical Education 527.....	2 hours
Supervised teaching or coaching.....	10 hours
	23 hours

(See also courses in College of Arts and Sciences.)

214, 215, 216. **TECHNIQUE OF SPORTS.**—The rules of the games and methods of coaching the sports offered each term. Students will assist as officials in the various games held on the campus. These courses to be taken supplementary to courses 211, 212, 213, by those expecting to teach. MANSFIELD.

217 (218) (219). **ELEMENTARY NATURAL DANCING.**—The expression of music by the individual, entailing a study of phrasing, note values and moods to be found in music, and exercises for the purpose of gaining control of movements. May be taken in place of 211, 212, 213. Prerequisite: 111, 112, 113. MANSFIELD.

221. **GAMES.**—Especially for teachers. A graded series of games suitable for playground, schoolroom, and gymnasium, and leading to the more advanced team games is given. Prerequisite: 111, 112, 113. Fall. SHALEY.

222. **ELEMENTARY FOLK DANCING.**—A graded course of folk dances suitable for use in the elementary school. Prerequisite 111, 112, 113. Winter. SHALEY.

223. **PRACTICAL HYGIENE.**—Lectures and practice in first aid, exercises for correcting postural defects, the examination and measuring of school children. Prerequisite: 111, 112, 113. Spring. SHALEY.

514 (515) (516). **ADVANCED NATURAL DANCING.**—The higher forms of dancing leading directly to dance drama. Prerequisite: 217 (218) (219). SHALEY.

517. **ADVANCED FOLK DANCING.**—More difficult dances suit-

able for use in high schools and colleges. Prerequisite 222
Spring. SHALEY.

527. PRINCIPLES OF PHYSICAL EDUCATION.—As applied to the
teaching of games, folk dances, tactics, and the coaching of
athletics. Prerequisite 111, 112, 113. Fall MANSFIELD.

COLLEGE OF ENGINEERING

The purpose of the courses is to prepare young men for the profession of engineering. The value of the training acquired in a university course is recognized by railway officials, manufacturers, municipal, state, and federal authorities. The demand in industrial and engineering fields throughout the country is for college graduates.

The graduates of the College of Engineering of the University of Arkansas are scattered over the entire world, occupying positions of trust in foreign lands, in the service of the United States government, in large manufactories, and in state and municipal service, or are building for themselves reputations as professional engineers.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance see pages 23-32

COURSES OF STUDY

The College of Engineering offers through its various departments four year courses leading to the degrees of *Bachelor of Chemical Engineering* (B. Ch. E.), *Bachelor of Civil Engineering* (B. C. E.), *Bachelor of Civil Engineering in Highways* (B. C. E. in Highways), *Bachelor of Electrical Engineering* (B. E. E.), and *Bachelor of Mechanical Engineering* (B. M. E.); graduate courses leading to the degrees of *Chemical Engineer* (Ch. E.), *Civil Engineer* (C. E.), *Electrical Engineer* (E. E.), and *Mechanical Engineer* (M. E.); and special two-year courses leading to a certificate.

Candidates for the bachelor's degree in engineering must meet the entrance, residence, and registration requirements, and must complete satisfactorily 213 term hours as outlined in the following courses of study.

Elective courses will not be given unless as many as five students, who have completed the required undergraduate course, register for them.

All senior engineering students, accompanied by instructors, are required, during the spring term, to make a visit of inspection to power plants, manufacturing plants, and noted engineering works. All engineering students will be required to spend one week in actual field practice in surveying during the junior year.

A student desiring to return for further study after completing requirements for the bachelor's degree in one of the three major courses, may complete the requirements for a degree in either of the other major courses in one academic year, provided he can complete all courses, or their equivalent, that are required for the bachelor's degree in the designated department

of study. Such a candidate is required to complete a minimum of 45 credit hours.

REQUIREMENTS FOR DEGREES ALL ENGINEERING STUDENTS

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Physics 147 (148) (149) General Physics.....	4	4	4
English 131 (132) (133) Composition.....	3	3	3
Math. 151, 152, 153, Alg.; Trig.; Anal.....	5	5	5
Drawing 121, 111, 112, 123, Mech. Draw.; Desc Geom.....	2	2	2
M. E. 121, 122, 123, Mechanic Arts.....	2	2	2
Military Art 111 (112) (113).....	1	1	1
	<hr/> 17	<hr/> 17	<hr/> 17

Sophomore Year

Mathematics 251, 252 (253) Anal.; Calculus.....	5	5	5
Chemistry 257 (258) (259) General Chem.....	5	5	5
Drawing 221, 222, 223, Mech. Draw.....	2	2	2
*C. E. 230 and 220 Surveying.....	5	5	5
*M. E. 230 and 220 Elements.....			
*E. E. 230 and 220 Elements.....	1	1	1
Military Art 211 (212) (213).....			
	<hr/> 18	<hr/> 18	<hr/> 18

CHEMICAL ENGINEERING

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Chem. 354 (355), 359 Organic; Industrial.....	5	5	5
Chem. 254, 255 Quantitative Anal.....	5	5	
M. E. 321, 322, 323, Mechanics.....	2	2	2
C. E. 324, 325, 326, Strength of Materials.....	2	2	2
†Elective	4	4	9
	<hr/> 18	<hr/> 18	<hr/> 18

Senior Year

Chem. 434 History, 435 (436) Adv. Inorg.....	3	3	3
Chemistry 451 (452) Physical Chem.....	..	5	5
E. E. 337, 338, Principles.....	3	3	..
E. E. 327, 328 Laboratory.....	2	2	..
†Elective	10	5	10
	<hr/> 18	<hr/> 18	<hr/> 18

*These courses are repeated each term, and a student is required to take one term of each.

†All electives must be chosen with the consent of the head of the department of Chemistry and the Dean of the College of Engineering. Of these electives 17 hours must be chosen from other courses in chemistry and at least 9 hours in English or a foreign language.

CIVIL ENGINEERING

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
C. E. 321, 322, Top. Surv. (field); Draw	2	2	2
C. E. 324, 325, 326, Strength of Materials	2	3	3
C. E. 332, 333, Graphic Statics; Structural Details	..	3	3
C. E. 334, Adv. Surveying	..	3	3
C. E. 335, Highways	..	3	..
C. E. 336, Topographic Surveying	3	..	..
C. E. 340, Railroads	..	..	4
C. E. 343, Hydraulics	..	5	4
C. E. 352, R. R. Surveying	..	5	..
M. E. 321, 322, 323, Mechanics	2	2	2
Geol. 147, Gen. Geol.	4	..	..
†Electives	3	3	..
	18	18	18

Senior Year

C. E. 428, Concrete Design	..	..	2
C. E. 431, Structural Details	..	3	..
C. E. 432, Sanitary Engr.	..	3	..
C. E. 433, Water Supply	..	..	3
C. E. 434, Contracts and Spec.	..	..	3
C. E. 435, Bridge Design	..	3	..
C. E. 436, 437, Masonry and Rein. Concrete	3	3	..
C. E. 438, Thesis	..	..	3
C. E. 440, Testing Lab.	..	4	..
C. E. 443, Bridge Design	..	..	4
C. E. 451, Bridge Stresses	5	..	..
C. E. 530, Land Drainage	3	..	..
Economics 533, Commercial Law	3	..	..
†Electives	1	2	3
	18	18	18

HIGHWAY ENGINEERING

Junior Year

Same as Junior Civil Engineering.

Senior Year

C. E. 425, Highway Bridges	..	2	..
C. E. 428, Concrete Design	..	..	2
C. E. 431, Structural Details	..	3	..
C. E. 434, Contr. and Spec.	..	..	3
C. E. 436, 437, Masonry and Reinforced Concrete	3	3	..
C. E. 438, Thesis	..	..	3
C. E. 440, Testing Lab.	..	4	..
C. E. 451, Bridge Stresses	5	..	..
C. E. 532, Highway Admin.	..	..	3
C. E. 533, Bituminous Lab.	3	..	..
C. E. 534, Federal Aid Plans	..	3	..
C. E. 548, Highway Bridges	..	..	4
Economics 533, Commercial Law	3	..	..
†Electives	4	3	3
	18	18	18

†To be chosen with the advice and consent of the head of the department.

*ELECTRICAL ENGINEERING**Junior Year*

	CREDIT HOURS		
	FALL	WINTER	SPRING
E. E. 321, 322, 323, Electrical Engineering Lab.....	2	2	2
E. E. 324, 325, 326, Electrical Engineering Design	2	2	2
E. E. 331,332,333, Dynamo Electric Machinery.....	3	3	3
M. E. 311,312,313, Mechanical Engineering Lab.....	1	1	1
M. E. 321, 322, 323, Mechanics	2	2	2
M. E. 331, 332, 333, Heat Power Engineering	3	3	3
C. E. 324, 325, 326, Strength of Materials	2	2	2
†Elective	3	3	3
	18	18	18
Suggested Electives:			
English 331 (332), Pub. Sp. 735	3	3	3
Foreign Language	3	3	3
Physics	3	3	3
Public Speaking	3	3	3
Electrical Engineering 434, 435, 436, or 334	3	3	3

Senior Year

E. E. 421, 422, 423, Electrical Engineering Lab.....	2	2	2
E. E. 424, 425, 426, Electrical Engineering Design	2	2	2
E. E. 431, 432, 433, Alternating Current Mach.....	3	3	3
E. E. 521, 522, 523, Electric Power Plants.....	2	2	2
E. E. 534, Thesis	3	..	3
Econ. 533, Commercial Law	3	..	..
Econ. 237, Industrial Management .....	..	3	..
C. E. 434, Contracts and Specifications .....	..	..	3
†Elective	6	6	3
	18	18	18
Suggested electives:			
Foreign Language	3	3	3
Economics	3	3	3
Electrical Engineering (438) (439) (533).....	3	3	3

*MECHANICAL ENGINEERING**Junior Year*

C. E. 324, 325, 326, Strength of Materials.....	2	2	2
M. E. 321, 322, 323, Mechanics	2	2	2
M. E. 331, 332, 333, Heat Power Engineering	3	3	3
M. E. 327, 328, 329, M. E. Laboratory	2	2	2
M. E. 521, 522, 523, Elem. Machine Design.....	2	2	2
E. E. 337, 338, 339, Electrical Engineering	3	3	3
E. E. 327, 328, 329, E. E. Laboratory.....	1	1	1
†Elective	3	3	3
	18	18	18

Senior Year

M. E. 411, 412, 413, Thesis	1	1	1
M. E. 421, 422, 423, Advanced Machine Design.....	2	2	2
M. E. 424, 425, 426, Adv. Mechanical Lab.....	2	2	2
M. E. 427, Mechanics of Transportation.....	..	..	2
M. E. 431, Heating and Ventilation.....	3	..	..

†To be chosen with the advice and consent of the head of the department.

	CREDIT HOURS		
	FALL	WINTER	SPRING
M. E. 434, Mechanical Equipment - Power Plants	3		
M. E. 441, Metallography .....	..	4	..
C. E. 343, Hydraulics .....	..	..	4
C. E. 434, Contracts and Specifications .....	..	..	3
Econ. 237, Industrial Management .....	..	..	..
Econ. 533, Commercial Law	3	..	..
‡ Elective	4	6	4
	18	18	18

GRADUATE AND PROFESSIONAL DEGREES

The regulations concerning these degrees are outlined on a previous page under the heading of "Graduate Work and Advanced Degrees."

SENIOR THESIS

THESIS.--Each senior or graduate student, candidate for a degree, is required to submit the subject of his thesis not later than December 15, and the completed thesis not later than June 1, to a committee consisting of the candidate's major professor and two other members appointed by the dean, for its criticism and approval. All these must be neatly typewritten on one side of plain white paper, 8½x11 inches in size, leaving a 1-inch margin. When drawings or diagrams are used they should be made to conform to these dimensions or some multiple of them. The first page of the thesis should contain the title and the following statement: "Thesis submitted by..... to the faculty of the University of Arkansas in partial fulfillment of the requirements for the degree of....." and the date. Theses submitted for bachelor degrees must be at least 2,500 words in length. A fee of two dollars is required to cover the cost of binding.

DEPARTMENTAL STATEMENTS

CHEMICAL ENGINEERING

PROFESSOR HALE, ASSOCIATE PROFESSOR WERTHEIM, ASSISTANT PROFESSOR HUMPHREYS, MR. PORTER

The requirements for a degree are outlined on previous pages.

The courses in chemistry for chemical engineers are described under the Department of Chemistry.

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CIVIL ENGINEERING

PROFESSOR STOCKER, ASSOCIATE PROFESSOR SPENCER, MR. MULLINS

The requirements for a degree are outlined on previous pages.

The courses in civil engineering include theoretical instruc-

‡ To be chosen with the advice and consent of the head of the department.

tion accompanied by illustrations and as much of engineering practice as possible. Much time is devoted to practice in the field, drafting room, and laboratory, this work being carried on parallel with the class work. Each year a party of engineering students goes into camp for one week for practice in surveying and railway location. The courses will give the student a knowledge of fundamental principles that will enable him to enter intelligently upon professional practice.

In recent years many problems have arisen in connection with the construction and maintenance of highways, creating a demand for men who have been trained for this particular branch of engineering. The course in highway engineering has been arranged to aid in training engineers for this work.

A well equipped laboratory has been provided for making all the standard tests in accordance with the practice of the Bureau of Public Roads.

A laboratory fee of \$2.00 is charged for the following courses in Civil Engineering: 220, 322, 334, 340, 352, 430, 440, 533.

220. SURVEYING FIELD PRACTICE.—Exercises in the field, including land surveying, leveling, trench and grading problems, and the adjustment of instruments. Field practice, six hours a week. Prerequisite: Plane Trigonometry. Should be taken simultaneously with 230. Every term. MULLINS.

230. ELEMENTARY SURVEYING.—General surveying to meet the needs of all engineering students; the care and use of tape, level, compass, and transit; study of land surveying, public land surveys, area and traverse calculation. Lectures and recitations three hours. Should be taken simultaneously with 220. Prerequisite: Plane Trigonometry. Every term. MULLINS.

340. RAILROAD SURVEYING.—Problems and practice in the location of simple, vertical, and transition curves; turnouts, measurements of cuts and fills; setting slope stakes, and making computations for volumes. Prerequisites: 220, 230, 322, 336. Spring. SPENCER.

352. RAILROAD SURVEYING.—Preliminary surveys and location; simple, vertical, and transition curves; turnouts and cross-overs; estimates of earthwork and materials of construction. Part field practice. Prerequisites: 220, 230, 322, 336. Winter. SPENCER.

322. FIELD PRACTICE IN SURVEYING.—Adjustment of instruments, topographical mapping, stadia and plain table work; triangulation; land and city surveying. Field practice six hours. Should be taken simultaneously with 336. Prerequisite: 220, 230. Fall. MULLINS.

321. TOPOGRAPHICAL DRAWING.—Computations and drawing of topographical maps from actual surveys. Drawing practice six hours. Prerequisite: Drawing 221-223. Fall. MULLINS.

324, 325, 326. STRENGTH OF MATERIALS.—Mathematical analysis of the stresses in beams and columns under various kinds of loading; supplemented by problems. Prerequisites: Math. 253. STOCKER.

332. **GRAPHIC STATICS.**—Graphical solution of problems. Drawing practice nine hours. Prerequisite: Drawing 221-223, C. E. 321. Winter. MULLINS.

333. **DRAWING.**—Detail drawing of simple wood and steel roof trusses. Drawing practice nine hours. Prerequisite: Drawing 221-223, C. E. 321, 332. Spring. MULLINS.

343. **HYDRAULICS.**—The theory of hydraulics; principles of hydrostatic and hydrodynamic pressures; gauging; water measuring devices; study of flow of water in pipes and open channels. Lectures and recitations three hours, computation work three hours. Prerequisite: M. E. 321, 322, C. E. 324, 325. Spring. MULLINS.

335. **HIGHWAYS.**—The location, design, construction, and maintenance of earth, gravel, broken stone, concrete and bituminous macadam roads. Prerequisite: 220, 230, 322, 330. Winter. MULLINS.

336. **SURVEYING.**—The use, care, and adjustment of level, transit, plane table, and sextant; methods employed in topographic, land, city, mine, and hydrographic surveying; map making and calculations from field notes. Lectures and recitations three hours. Prerequisite: 220, 230. Fall. MULLINS.

436, 437. **MASONRY AND REINFORCED CONCRETE.**—Stone and brick masonry; plain and reinforced concrete; deep foundations; dams, retaining walls, reinforced concrete structures. Prerequisites: C. E. 324, 325, 326; M. E. 321, 322, 323. Fall and winter. SPENCER.

428. **CONCRETE DESIGN.**—Design of reinforced concrete structures. Drawing practice six hours. Prerequisites: 436, 437. Spring. SPENCER.

430. **HIGHWAY ENGINEERING LABORATORY.**—Tests on gravel and broken stone to determine hardness, toughness, cementing power, and resistance to abrasion; rattler tests and absorption tests on paving brick; tests on sand and clay. Laboratory six hours. Prerequisite: 335. Winter. SPENCER.

440. **ENGINEERING LABORATORY.**—Tests to determine strength and other properties of materials of construction; tensile and crushing tests on brick and stone; standard tests on natural and Portland cements; tests to determine the effect of graded and ungraded aggregates on concrete. Recitation one hour; laboratory six hours a week. Prerequisite: C. E. 324, 325, 326; M. E. 321, 322, 323. Winter. SPENCER.

334. **ADVANCED SURVEYING.**—Problems in triangulation, topographic surveying, precise leveling, and practical astronomy. Prerequisite: 352. Spring. SPENCER.

451. **ROOF AND BRIDGE STRESSES.**—Computation of stresses in roofs and bridges, chiefly by analytical methods. Special attention given to the subject of train loads for railroad bridges. Prerequisite: C. E. 324, 325, 326, 332, 333; M. E. 321, 322, 323. Fall. STOCKER.

431. **STRUCTURAL DETAILS.**—Design of details of steel and timber structures. Prerequisite: 451. Winter. STOCKER.

435. **BRIDGE DESIGN.**—Complete design with detailed drawings and estimates of weight and cost of a plate girder bridge. Prerequisite: 451. Winter. STOCKER.

443. **BRIDGE DESIGN.**—Complete design with detailed drawings and estimates of weight and cost of a riveted or pin connected railroad bridge. Prerequisites: 451-431. Spring. STOCKER.

432. **SEWERAGE.**—Municipal sewage disposal. Computations of quantities of sanitary and storm sewage, design of separate and combined systems of sewers, design of sewage purification works, and the ultimate disposal of sludge and effluents. Financial, legal, and pathological considerations of sanitation. Prerequisite: 343. Winter. STOCKER.

433. **WATERWORKS.**—Public water supplies. Examination of sources of supply, computation of quantities required, design of reservoirs, purification plants, and distributing systems. Financial, legal, and pathological considerations of municipal water supply. Prerequisite: 343. Spring. SPENCER.

425. **HIGHWAY BRIDGE DESIGN.**—Problems in the design of highway bridges, determination of waterways, construction and maintenance of highway bridges and culverts. Drawing and computation six hours. Prerequisite: 451. Winter. STOCKER.

548. **HIGHWAY BRIDGE DESIGN.**—A continuation of 425. Spring. STOCKER.

434. **ENGINEERING CONTRACTS AND SPECIFICATIONS.**—Legal aspects of contract and specification forms, and instruments for advertisements, proposals, contracts, and bonds; specifications for various kinds of work and materials. Spring. STOCKER.

438. **THESIS.**—(See SENIOR THESIS on previous pages.) STOCKER.

530. **LAND DRAINAGE AND IRRIGATION.**—Rainfall and run-off, the survey of drainage basins, the computation of quantities of run-off from drainage basins; the design, location, and construction of drainage courses; the financial and legal considerations of land drainage; benefits derived from land drainage. The sources of water supply for irrigation; the design, location, and construction of irrigation works; the application and duty of water; the financial, legal, and beneficial consideration of irrigation. Prerequisite: 343. Fall. SPENCER.

531. **INFLUENCE LINES.**—Stresses in framed structures by graphical analysis and influence lines. Fall. SPENCER.

532. **HIGHWAY ADMINISTRATION.**—The relation of road and street improvement to social and economic welfare, state, county, and city highway departments, highway and local improvement law, traffic regulation, taxation and methods of financing county roads and city pavements. Prerequisite: 335. Spring. STOCKER.

533. **BITUMINOUS MATERIALS TESTING.**—Standard tests for bituminous materials and their application to material specifications. Prerequisite: 335. Fall. STOCKER.

534. **FEDERAL AID HIGHWAYS.**—Reconnaissance and complete detailed highway surveys; making a complete set of road plans in accordance with Federal Aid Projects. Field practice and drafting, nine hours. Prerequisite: 220, 230, 335. Winter. MULLINS.

535. **MUNICIPAL PLANNING AND MANAGEMENT.**—Proper design, construction, and maintenance of streets and pavements; other problems of municipal engineering; city management. Lecture and recitation three hours. Prerequisite: 322, 336, 335. Spring. MULLINS.

536. **CONCRETE ARCHES.**—Elastic theory of arches and application to concrete structures. Prerequisite: M. E. 321, 322, 323. C. E. 324, 325, 326, 436, 437. Open to Seniors only. Winter. SPENCER.

537. **ESTIMATING.**—Study of cost data, preparation of estimates, contractor's accounting. Spring. SPENCER.

SANITARY BACTERIOLOGY.—A course offered by the Department of Bacteriology primarily for students in engineering interested in water supply and sanitary engineering.

DRAWING AND ARCHITECTURE

PROFESSOR WILSON, MR. ALLEN

This department teaches the courses in general engineering drawing, and also some elective courses of interest to students in the several colleges.

The work offered in architecture for the school year 1925-26 is the prescribed work for the junior year of a course that has been outlined as suitable for students interested in Architectural Engineering. The junior work is based on the course of study as shown, in the catalog, for all freshman and sophomore engineering students.

Drawing

121, 111. **MECHANICAL DRAWING.**—The selection and care of instruments; lettering, sketching, and working drawings. Fall and winter. Prerequisite: None. WILSON, ALLEN.

112, 123. **DESCRIPTIVE GEOMETRY.**—Lectures covering elements of Descriptive Geometry, with assigned problems to be worked out on the drawing board. Some of the assignments make application of Descriptive Geometry to practical problems. Prerequisite: 121. Winter and spring. WILSON, ALLEN.

221, 222, 223. **MECHANICAL DRAWING.**—Elementary course including lettering, technical sketching, machine parts, detail and assembly drawing, tracing and blue-printing, perspective and isometric drawing, and empirical machine design. Drawing practice six hours. Prerequisite: 123. WILSON.

224, 225, 226. **ARCHITECTURAL DRAWING.**—Plans and specifications, details, bills of material, perspective drawing, orders of architecture. For students expecting to elect only one course in architectural work. Prerequisite: None. WILSON.

227, 228. **LETTERING.**—Freehand lettering, titles for maps, etc. Drawing practice six hours. Winter and spring. WILSON.

Architecture

331, 332, 333. **ELEMENTS OF ARCHITECTURE.**—Architectural perspective, shades and shadows, elementary architectural design. Prerequisite: Drawing 123. ALLEN.

321, 322, 323. **ARCHITECTURAL DRAWING.** Architectural working drawings. Materials of construction. Prerequisite: Drawing 123. WILSON.

334. **BUILDING SANITATION.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in all types of buildings. Prerequisite: Junior standing. Spring. WILSON.

335, 336, 337. **HISTORY OF ARCHITECTURE.**—The history of Egyptian, Western Asiatic, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, and Modern Architecture; effects of local, political, and economic conditions on architectural development; influence of climate, materials, structural systems; evolution of architectural forms. ALLEN.

ELECTRICAL ENGINEERING

PROFESSORS GLADSON, STELZNER, MR. BULLEN

The requirements for a degree are outlined on a previous page.

The courses in this department seek to combine general and technical subjects in such proportions as to furnish a good foundation for the profession of electrical engineering. Sufficient theory is taught in the class-room and illustrated by laboratory experiments to give the student a knowledge of the underlying principles. Shop experience with manufacturing companies to give the student specific practical training is desirable. Such training should be obtained during vacations and after graduation.

A laboratory fee of \$2.00 is charged for the following courses in Electrical Engineering: 220, 321, 322, 323, 327, 328, 329, 421, 422, 423.

230. **ELEMENTS OF ELECTRICAL ENGINEERING.**—Introductory. Recitations and demonstration on electric and magnetic circuits and machines. Measuring instruments, their use and calibration. Prerequisite: Physics 147-149. Every term. BULLEN.

220. **ELECTRICAL ENGINEERING LABORATORY.**—To accompany 231. Laboratory four hours. Prerequisite: Physics 147-149. Every term. BULLEN.

331, 332, 333. **DYNAMO ELECTRIC MACHINERY.**—Direct and

alternating current machinery with their general applications. **Prerequisite:** 230. **STELZNER.**

321, 322, 323. **ELECTRICAL ENGINEERING LABORATORY.**—Electrical and magnetic measurements, use and calibration of instruments; testing of direct and alternating current machinery. Four hours a week. To accompany 331-333. **STELZNER.**

324, 325, 326. **ELECTRICAL ENGINEERING DESIGN.**—Problems in direct current machinery, calculations and drawing. Four hours. **Prerequisite:** 230. **BULLEN.**

334. **ILLUMINATING ENGINEERING.**—Electric light wiring and different methods of artificial illumination; sources, intensity and distribution of light; physiological and hygienic problems; direct and indirect lighting; reflecting surfaces; illumination and photometric calculations. **Prerequisite:** 230. Fall. **STELZNER.**

337, 338, 339. **PRINCIPLES OF ELECTRICAL ENGINEERING.**—A course for non-electrical students in direct and alternating current machinery with their general applications. **Prerequisite:** 230. **BULLEN.**

327, 328, 329. **ELECTRICAL ENGINEERING LABORATORY.**—To accompany 337-339. Four hours a week. This course may be taken for one hour credit. **BULLEN.**

421, 422, 423. **ELECTRICAL ENGINEERING LABORATORY.**—Laboratory exercises to accompany 431-433. Four hours. **STELZNER.**

424, 425, 426. **ELECTRICAL ENGINEERING DESIGN.**—Problems in alternating current machinery, calculations and drawings. Four hours a week. To accompany 431-433. **BULLEN.**

431, 432, 433. **ALTERNATING CURRENTS AND ALTERNATING CURRENT MACHINERY.**—Lectures, recitations and problem in alternating current circuits and machinery. **Prerequisite:** 333. **STELZNER.**

434. **TELEPHONE.**—The principal systems of telephony in practical use. **Prerequisite:** General Physics. Spring. **BULLEN.**

435. **WIRELESS TELEGRAPHY.**—The principal systems of wireless telegraphy and telephony in practical use. **Prerequisite:** General Physics. Fall. **BULLEN.**

436. **WIRE TELEGRAPHY.**—The principal systems of wire telegraphy; signals and fire alarms. **Prerequisite:** General Physics. Winter. **BULLEN.**

437. **ELECTRICAL ENGINEERING SEMINAR.**—Students who attend and take part in at least three-fourths of the meetings of the University of Arkansas Branch of the American Institute of Electrical Engineers during the junior and senior years, and who prepare and present an acceptable original paper on some engineering subject, will be allowed three term hours of credit.

438. **ELECTRIC TRANSMISSION AND DISTRIBUTION OF POWER.**—Modern methods of transmission and distribution of electric power. **Prerequisite:** 431. Fall. **GLADSON.**

439. **ELECTRICAL RAILWAYS.**—Application of electricity to the propulsion of street cars and railway trains. Selection, equipment, and study of the various systems of electric traction

Lectures, recitations, and problems. Prerequisite 333 Winter. STELZNER.

533. HYDRO-ELECTRIC ENGINEERING.—Methods of investigating power possibilities of flowing water, collecting data, selecting power sites, designing dams, power house, transmission lines, and machinery. Prerequisite: 431. Spring. GLADSON.

521, 522, 523. ELECTRIC POWER PLANTS.—A discussion of public utility plants for the production and utilization of electric energy. Selection, arrangement and installation of machinery, general power plant specifications and design, operation and management. Prerequisite: 333 or 339. GLADSON.

534. THESIS.—(See Senior Thesis on previous pages.) GLADSON.

MECHANICAL ENGINEERING

PROFESSOR CUSHMAN, MR. STRATE, MR. DINWIDDIE,
MR. THOMPSON, MR. HARDGRAVE

The requirements for a degree are outlined on a previous page.

Mechanical engineers are in demand in various lines of engineering work, such as consulting engineering; power plant designing, constructing, and operating; designing, constructing, erecting, operating, and testing all kinds of machinery; engineering salesmanship; heating and ventilating engineering; designing, constructing, and erecting material handling machinery, ships, automobiles, and aircraft; manufacture of textiles, foods, clothing, furniture, metals, and non-metallic materials, efficiency engineering and management; metallographic and other lines of research and testing.

The course in mechanical engineering is designed to give the student a broad foundation in the subjects that are of the greatest importance in his work; a technical education in his chosen field made practical by shop and laboratory courses, and, in electives, a certain amount of specialization and cultural development. It is believed that such a course will enable the student to be of immediate value to his employer and that it will insure certain advancement in his profession.

A laboratory fee of \$2.00 will be charged in the following courses: Mechanical Engineering 121, 122, 123, 124, 125, 220, 311, 312, 313, 327, 328, 329, 424, 425, 426, 441, 610, 611, 612, 613, 620, 621, 622, 623, 630, 631, 632, 635.

121. WOODWORK.—Joinery, use and care of tools, making of patterns and core boxes, electric furnace and foundry practice. Shop practice four hours a week. Prerequisite: None. Every term. DINWIDDIE.

122. FORGING.—Management of fires; drawing, welding, annealing and tempering of tools. Shop practice four hours a week. Prerequisite: None. Every term. THOMPSON.

123. MACHINE SHOP.—Bench work on chipping and filing;

turning, thread cutting, planing, and grinding. Shop practice four hours a week. Prerequisite: None. Every term. **HARDGRAVE.**

124. **CARPENTRY.**—Especially for students in Agriculture. Use and care of tools, grinding and sharpening edge tools, setting and filing saws. Commercial methods of handling lumber, construction of modern farm buildings; preparing lists of material, plain roof framing, use of steel square. Shop practice four hours a week. Prerequisite: None. Every term. **DINWIDDIE.**

125. **FORGE WORK.**—Especially for students of Agriculture. Handling of fires, annealing, drawing and welding. Special problems most suitable for farm work. Shop practice four hours a week. Prerequisite: None. Every term. **THOMPSON.**

610, 620 or 630. [Formerly 510, 520, 530.] **ADVANCED FOUNDRY.**—Every term. **DINWIDDIE.**

611, 621 or 631. [Formerly 510, 520, 530.] **ADVANCED WOODWORK.**—Every term. **DINWIDDIE.**

612, 622 or 632. [Formerly 510, 520, 530.] **ADVANCED FORGING.**—Every term. **THOMPSON.**

613, 623 or 633; 614, 624 or 634. [Formerly 510, 520, 530.] **ADVANCED MACHINE SHOP.**—Every term. **HARDGRAVE.**

Advanced shop courses are elective for students who have completed the basic courses. Prerequisites: 121, 122 and 123.

230. **ELEMENTS OF MECHANICAL ENGINEERING.**—An introductory course. Steam and gas power machinery; other power plant equipment. Mechanism. Applications to transportation, material handling and manufacture. Accompanied by 220. Prerequisite: Physics 147-149. Every term. **CUSHMAN OR STRATE.**

220. **ELEMENTARY MECHANICAL LABORATORY.**—Concurrent with 230. Operation and testing of engines and other laboratory apparatus. Study and calibration of testing instruments. Report writing. Every term. **STRATE.**

321, 322, 323. **MECHANICS.**—Mathematical and graphical solutions of problems with forces in equilibrium; problems of motion. Prerequisite: Mathematics 251-253. **CUSHMAN.**

331, 332, 333. **HEAT POWER ENGINEERING.** General course, covering the thermodynamic theory of heat and its application to gases and vapors; steam engines and turbines, and internal combustion engines; action of valves and valve gears studied by the aid of valve diagrams; boilers and other power plant equipment. Prerequisites: 230 and Mathematics 251-253. **CUSHMAN.**

327, 328, 329. **MECHANICAL ENGINEERING LABORATORY.**—Calibration tests of laboratory instruments; calorimeter tests; power and efficiency tests of steam engines, pumps, turbines and internal combustion engines; boiler tests. Special emphasis on technical writing and form of engineering reports. Concurrent with 331-333. **STRATE.**

311, 312, 313. **MECHANICAL LABORATORY.**—Especially for Electrical Engineering students. Similar to 327-329. Concurrent with 331-333. **STRATE.**

521, 522, 523. **ELEMENTARY MACHINE DESIGN.**—Steam engines, valve gears and governors; gas engine mechanics; mechanism. Design. Six hours a week. **CUSHMAN.**

421, 422, 423. **ADVANCED MACHINE DESIGN.**—A continuation of 523, with more advanced problems in determining stresses and figuring the size of parts. The latter part of the course is devoted to the design of the main parts of prime movers. Prerequisite: 361-363. **CUSHMAN.**

427. **MECHANICS OF TRANSPORTATION.**—The operation and design of locomotives, aircraft, ships and automobiles. Prerequisite: Mathematics 251-253. **CUSHMAN.**

441. **METALLOGRAPHY.**—A microscopic and photomicrographic study of metals and alloys, including low carbon and high carbon steels; effects of heat treatment and addition of metallic elements to steel. Lecture two hours, laboratory two hours a week. Winter. **STRATE.**

431. **HEATING AND VENTILATION.**—Theory of heat transfer; heat losses; systems used for heating and ventilating buildings; hot air, hot water, steam, and the plenum and vacuum systems; central station and district heating. Principles of refrigeration. Supplemented by practical problems. Prerequisite: 331-333. Fall. **STRATE.**

434. **MECHANICAL EQUIPMENT OF POWER PLANTS.**—Detailed study of various kinds of power plant equipment; selection of sizes for best economy; design and operation of modern central station for maximum efficiency; heat balance system. Supplemented by practical problems. Prerequisite: 331-333. Fall. **CUSHMAN.**

424, 425, 426. **ADVANCED MECHANICAL LABORATORY.**—A continuation of 329, with special attention to commercial methods of making tests. Participation in actual commercial tests will be featured if suitable arrangements can be made. Prerequisite: 327-329. **STRATE.**

411, 412, 413. **THESIS.**—(As previously described) **CUSHMAN.**

SHORT COURSE IN ELECTRICAL AND MECHANICAL ENGINEERING

**MR. DINWIDDIE, MR. MCKINLEY, MR. STARBIRD, MR. HARDGRAVE,
MR. THOMPSON, MR. BARTON**

The following course is offered to students who have at least a grammar school education and who desire to prepare themselves for advancement in the trades, or to become familiar with the care, operation, and repair of some line of machinery. The course is intended to give the student a working knowledge of steam, gas, and electrical machinery, in addition to his shop training.

Upon the satisfactory completion of two years of work, a certificate will be issued.

A fee of \$2.00 per term is charged for the following courses:
1, 2, 3, 41, 42, 43, 44, 45, 46, 56, 57, 58, 59, 62, 63, 64, 121, 122,
123.

First Year

Fall Term

		HOURS	
		RECITATION	PRACTICE
41	Elements of Steam Boilers.....	3	2
44	Elementary Electricity.....	3	2
11	Mechanical Drawing.....		4
122	Forging		4
14	Arithmetic.....	3	..
1	Physics.....	3	2

Winter Term

42	Elements of Steam Engines.....	3	2
45	First Course in Direct Current Machines.....	3	2
12	Mechanical Drawing.....		4
121	Woodworking		4
17	Arithmetic.....	3	..
2	Physics	3	2

Spring Term

43	Internal Combustion Engines.....	3	2
46	Direct Current Machines.....	3	2
13	Mechanical Drawing.....		4
123	Machine Shop.....		4
15	Geometry.....	3	..
3	Physics.....	3	2

Second Year

Fall Term

62	Essentials of Alternating Currents...	3	2
51	Mechanical Equipment.....	3	..
20	Mechanical Drawing.....		4
7	Algebra	3	..
27	Practical Mechanics.....	3	..
56	Gas and Oil Engines.....	3	2

Winter Term

63	Alternating Currents.....	3	2
52	Electrical Equipment.....	3	..
21	Mechanical Drawing.....		4
8	Algebra	3	..
28	Practical Mechanics.....	3	..
57	Steam Boilers and Accessories.....	3	2

Spring Term

64	Alternating Current Machines.....	3	2
59	Heating and Ventilation.....	3	2
22	Mechanical Drawing.....		4
9	Trigonometry.....	3	..
58	Steam Power Units.....	3	2
	Elective.....	3	..
Suggested Electives:			
53	Electric Railways.....	3	..
54	Electric Transmission.....	3	..
55	Illumination.....	3	..

DESCRIPTION OF COURSES

T. C. 14-17. **ARITHMETIC.**—The fundamental language of mathematics; relative importance of signs of operation; cancellation; common fractions; decimals; percentage; ratio and proportion; roots and powers. Recitation three hours a week. **McKINLEY.**

T. C. 15. **GEOMETRY.**—A study of the fundamental laws of plane surfaces, lines and angles, and various geometrical figures. Recitation three hours a week. **McKINLEY.**

T. C. 7-8. **ALGEBRA.**—A study of algebra using everyday examples through the ordinary steps. Notation and expressions used in algebra; positive and negative numbers; addition; subtraction; multiplication; division, and factoring. Fractions and fractional, simultaneous and quadratic equations; exponents, powers; roots and graphics. Recitation three hours a week. **STARBIRD.**

T. C. 9. **TRIGONOMETRY.**—Working knowledge of logarithms; use of simple trigonometric functions and solution of triangles. Recitation three hours a week. **STARBIRD.**

T. C. 11, 12, 13. **MECHANICAL DRAWING.**—Freehand lettering and sketching of machine parts; care and use of instruments; working drawing. Laboratory four hours a week. **BARTON.**

T. C. 20, 21, 22. **MECHANICAL DRAWING.**—Lettering; technical sketching; detail and assembly drawings; perspective and isometric drawings; tracing and blue-printing. Laboratory four hours a week. **BARTON.**

T. C. 121. **WOODWORK.**—Joinery; use and care of tools; making of patterns and core boxes. Shop practice four hours a week. **DINWIDDIE.**

T. C. 122. **FORGING.**—Management of fires; drawing; welding; annealing and tempering of tools. Shop practice four hours a week. **THOMPSON.**

T. C. 123. **MACHINE SHOP.**—Bench work on chipping and filing; turning; thread cutting; planing and grinding. Shop practice four hours a week. **HARDGRAVE.**

T. C. 1, 2, 3. **PHYSICS.**—An elementary non-mathematical treatment of matter and energy; molecular forces; mechanics of fluids and gases; simple motion; mechanics of solids; mechanical work; sound; light; heat; magnetism and electricity; giving explanation of common practical commercial apparatus. Recitation three hours, laboratory two hours a week. **McKINLEY.**

T. C. 44. **ELEMENTARY ELECTRICITY.**—Essential facts and laws of electrical practice. Measurement of power in various circuits; calculation of wire sizes and study of wiring systems. Non-technical study of generators and motors; location and correction of trouble; batteries. Recitation three hours, laboratory two hours a week. **McKINLEY.**

T. C. 45. **FIRST COURSE IN DIRECT CURRENT MACHINES.**—A

more detailed study of direct currents; magnetism; electromagnets; generators; motors; and more difficult problems of D. C. work. Recitation three hours, laboratory two hours a week. **McKINLEY.**

T. C. 40. DIRECT CURRENT MACHINES.—Electrical measuring instruments; inductance; capacity; introductory study of alternating currents, care and operation of D. C. machinery, testing and repair of motors and generators. Recitation three hours, laboratory two hours a week. **McKINLEY.**

T. C. 62. ESSENTIALS OF ALTERNATING CURRENTS.—A detailed introductory study of the alternating current circuit; voltage; current; and power relations in series and parallel circuits; with corresponding vector analysis. Recitation three hours, laboratory two hours a week. **STARBIRD.**

T. C. 63. ALTERNATING CURRENTS.—Continuation of the preceding, including inductive reactance; choke coils; alternating current generators; single and polyphase and armature windings. Recitations three hours, laboratory two hours a week. **STARBIRD.**

T. C. 64. ALTERNATING CURRENT MACHINES.—A study of alternating current in its relation to industry; regulation and control of alternators; parallel operation of alternators; transformers, and polyphase connections; induction and synchronous motors; short and long transmission lines. Recitation three hours, laboratory two hours a week. **STARBIRD.**

T. C. 41. ELEMENTS OF STEAM BOILERS.—An elementary treatment of steam boilers, types, settings, auxiliaries; care and operation. Recitation three hours, laboratory two hours a week. **BARTON.**

T. C. 42. ELEMENTS OF STEAM ENGINES.—Fundamental principles; types; installation; care and operation. Recitation three hours, laboratory two hours a week. **BARTON.**

T. C. 43. INTERNAL COMBUSTION ENGINES.—Fundamental principles of operation; types; care and operation. Recitation three hours, laboratory two hours a week. **BARTON.**

T. C. 27, 28, 29. PRACTICAL MECHANICS.—A general study of the fundamentals of force, motion, energy, simple machines, elasticity, and the mechanics of fluids. Particular attention is given to the solution of problems having practical value. Recitation three hours a week. **BARTON.**

T. C. 51. MECHANICAL EQUIPMENT.—Selection of machinery; its operation and management. Recitation three hours a week. **BARTON.**

T. C. 52. ELECTRICAL EQUIPMENT.—Selection of the electrical equipment; its operation and management. Recitation three hours a week. **STARBIRD.**

T. C. 50. GAS AND OIL ENGINES.—Thermodynamics of the internal combustion engine; loss in gas and oil engines; power in explosive motors; gas, semi-Deisel, and Deisel types. Recitation three hours, laboratory two hours a week. **BARTON.**

T. C. 57. STEAM BOILERS AND ACCESSORIES.—Chemistry of combustion; mechanical stokers; types of settings; smokeless combustion, chimneys, and mechanical draft; boiler calculations; riveting and bracing; boiler room auxiliaries; boiler accessories; piping; boiler testing. Recitation three hours, laboratory two hours a week. BARTON.

T. C. 58. STEAM POWER UNITS.—Steam engine theory; condensing apparatus and auxiliaries; steam engine testing; steam turbines; general principles; types; auxiliaries; care and operation. Recitation three hours, laboratory two hours a week. BARTON.

T. C. 59. HEATING AND VENTILATION.—A study of different systems of heating and ventilation and its operation. Recitation three hours, laboratory two hours a week. BARTON.

Electives. (A student may choose any one of these three courses):

T. C. 53. ELECTRIC RAILWAYS.—An elementary treatment of the application of electricity to the propulsion of street cars and railway trams. Types of systems; selection and operation of equipment. Recitation three hours a week. STARBIRD.

T. C. 55. ILLUMINATION.—Elements involved in the various methods of artificial illumination. Wiring and illumination calculations. Recitation three hours a week. MCKINLEY.

T. C. 54. ELECTRIC TRANSMISSION.—An elementary treatment of the principles involved in the transmission of power; line calculations and construction. Recitation three hours a week. STARBIRD.

ENGINEERING EXPERIMENT STATION

The purpose of the station is to make investigations and study engineering problems of general interest to the people of Arkansas, to serve the mechanical industries of the state, and the urban population, as the agricultural experiment stations of the state serve the rural population, and to solve engineering problems for the agricultural interests of the state.

The Engineering Experiment Station is an organization within the College of Engineering and, therefore, has no separate establishment. The well-equipped laboratories of the several engineering departments are available for use by the Station in its investigations. In addition to these laboratories the Station has equipped a separate fuel testing laboratory with the very best and latest types of apparatus available, which, no doubt, makes it one of the most complete in the Southwest.

In addition to the regular Research Staff opportunity is offered to all instructors in the College of Engineering to engage in scientific research in addition to their usual teaching duties.

The Civil Engineering laboratories are designated by Legislative enactment as the official testing laboratory of the State Highway Commission. The Commission is at present gathering and shipping samples of state road building materials for station testing. When the entire state has been thoroughly surveyed, the Station will publish results of its tests and data on the location and extent of the deposits as supplied by the Commission.

Investigations being actively carried on at present include the following:

Study of Coals of Arkansas.

Survey and Tests of Arkansas Road Materials.

Survey of City Water Supplies of Arkansas.

One or two new projects are to be initiated, as resources permit, during 1925. Suggestions of new investigations of general interest to the state, by manufacturers, engineers, or other citizens, are earnestly requested.

The results of all investigations will be published in the form of bulletins and circulars to be distributed free to all who may be interested. Copies may be obtained by anyone upon request. The Progress Report of the Engineering Experiment Station for the year 1924 is now available.

For further information address Director, Engineering Experiment Station, University of Arkansas, Fayetteville, Ark.

GENERAL EXTENSION SERVICE

ADMINISTRATIVE OFFICERS

JOHN C. FUTRALL, M. A., LL. D., *President.*

ARTHUR M. HARDING, Ph. D., *Director of General Extension.*

CHARLES F. ALLEN, M. A., *In Charge of Little Rock Extension Center.*

EVANGELINE PRATT, B. A., *Secretary.*

GLADYS GILLETTE, *Secretary, In Charge of Correspondence Instruction.*

The purpose of the University of Arkansas is to serve not only a group of qualified resident students, but all the people of the state. To this end University Extension was established, the General Extension Service to represent the Colleges of Engineering, Arts and Sciences, and Education, and the Agricultural Extension Service to represent the College of Agriculture.

The General Extension Service places at the disposal of the people of Arkansas the same opportunities for instruction and culture offered resident students, disseminates the valuable knowledge obtained from research and investigation, and is the medium through which many educational and public service resources outside the state are made available for effective public use.

The activities of the General Extension Service may be classified under the following heads. It should be understood, however, that the services rendered are by no means limited to those mentioned. The scope of the usefulness of the Service extends into new fields whenever an opportunity presents itself.

CORRESPONDENCE INSTRUCTION.—To those persons who cannot attend the University, the Bureau of Correspondence Instruction furnishes extension courses in vocational, technical and cultural subjects, carrying the same credit as residence courses and supervised by the same instructors. A certificate is granted upon completion of every course. This service is invaluable professionally to teachers, working men, business men, and students working toward a degree, as well as to persons studying for culture alone. A number of preparatory courses are offered for those to whom high school training is not available or practicable. Any grammar school graduate may enroll in these courses. There are special courses for teachers which they may take in place of teachers' examinations to raise the grade of their certificates, and special reading circle courses, whereby they may get University credit and meet the reading circle requirements at the same time.

CLUB STUDY COURSES.—Subjects which are of greatest interest to the clubs of the state are selected by the General Extension Service and courses of 12 lessons are prepared on each. Each

lesson contains references and questions and forms a complete program for one meeting. If desired, all necessary reference books will be furnished, and year books will be printed for the club.

VISUAL INSTRUCTION.—The Bureau of Visual Instruction functions in a number of ways. It furnishes films for school and community entertainment, circulates free films from various sources, and educational films at cost from the best distributors.

Sets of slides on almost any grammar or high school subject are supplied from the Bureau's own library, and a number of other sets from other sources are distributed.

LECTURES AND ENTERTAINMENTS.—The General Extension Service arranges for lectures and entertainments to be given by prominent professional men and women, ministers, musicians, state officials, and university professors on a wide range of subjects. This service gives business men an opportunity to hear talks by experts in their particular fields; gives women an opportunity to attend lectures of definite interest to them; furnishes speakers and musical programs for special occasions; and serves to extend the educational influence of the University generally, as well as to further community spirit.

At present there is no fund available to cover the expense connected with this service. Consequently the General Extension Service is compelled to charge a small fee, which is the same for all towns in the state so that the towns near Fayetteville have no advantage over those more remote.

LYCEUM COURSES.—The General Extension Service can furnish a limited number of lyceum courses. These courses are offered at cost. Their quality is above the average, many of the numbers being given by University artists.

In securing other talent the General Extension Service gets an option on a number of engagements for professional concert companies and entertainments, and acts as a clearing house for these dates. In this way much can be saved on the cost of the local lyceum course.

ARKANSAS HIGH SCHOOL DEBATING LEAGUE.—This organization is for the promotion of the consideration and discussion of present day problems. On account of the great increase in membership in the League, the state has been divided into 12 districts. In each district preliminary debates are held to eliminate to one school. The 12 schools which are winners in these debates then send their teams to the University for the final debates and honors.

CLASS SUPPLY.—Extension classes are organized in any community and in any subject where the enrollment justifies it. These classes are taught by University instructors. The courses given are standard courses, under the supervision of the College under which they fall, and the University credit is granted those who complete the work. Class centers have been estab-

lished at Little Rock, Fort Smith, Batesville, Crossett, Magnolia, Pine Bluff, Brinkley and Blytheville.

BULLETIN OF PUBLIC SERVICE.—The University has on its staff a considerable number of men whose training and years of study enable them to speak with authority on many of the problems with which the state is confronted. The University faculty includes men who are trained in solving intricate problems of taxation and government; men who have made a lifetime study of economics and social problems; specialists in every phase of agriculture; men who know the conditions and the methods necessary to the successful development of manufactures; men who are qualified to lead in the ascertainment of the real facts about the natural resources of the state; men who know about schools, roads, and public health.

In order to get before the people of the state the results of studies and investigations made by members of the University staff, the "Bulletin of Public Service" is published at regular intervals. This is part of the general program for the building of a greater state.

The bulletin will be sent to a group of citizens in every county in Arkansas. Any citizen may have his name placed on the mailing list by making application to the General Extension Service.

SOCIAL SURVEYS.—One of the supreme needs of the state is the improvement of rural social conditions. In order that the people of the state may have the facts on which to base an intelligent program for social betterment, the Bureau of Social Surveys has been established. It is the purpose of this Bureau to conduct investigations in the field of rural sociology and rural social organization.

PHONOGRAPH RECORDS.—To cultivate an appreciation and understanding of good music, the General Extension Service sends out sets of the best records, selected by the Department of Fine Arts, making up complete programs, accompanied by suitable lectural material.

CLUB STUDY OUTLINES.—Study outlines are furnished free of charge on subjects of interest to clubs. Lists of references are furnished with these outlines; it is often possible for reference books to be loaned from the General Extension Service.

PLAYS AND RECITATIONS.—To assist in the selection of good plays, the General Extension Service lends copies from its library of plays from which one may be selected for local use. Readings may be borrowed, copies of the most suitable ones made and the originals returned. Excellent contest material may be found in these readings.

GENERAL INFORMATION.—The General Extension Service endeavors to answer questions and give information on all subjects. Lists of references and packages of collected material are sent whenever possible. This service is free and is found

invaluable by individuals, clubs, civic societies, and other organizations.

COMMUNITY INSTITUTES.—To secure unified action toward community improvement, the General Extension Service conducts community institutes, designed to make systematic investigation of local problems and to carry on profitable discussion which will lead to the solution of such problems. These institutes consist of one, two or three-day programs on which appear local people, the best known men and women from the State Department, clubs and associations, and from the University and other educational institutions. Lectures and illustrated talks are given, demonstrations offered, motion pictures shown, and conferences held. Modern business methods, co-operation between merchant and farmer, public health, city beautification, and similar subjects are considered. "Get together meetings" are held at night, consisting of musical programs, picture shows, home talent plays, informal discussions and similar things of interest.

SCHOOL SURVEYS.—The College of Education through the General Extension Service, is glad to assist any community in making a survey of its schools. School authorities wishing to compare their local system with national standards can do so through the school survey.

EDUCATIONAL INFORMATION AND ASSISTANCE.—Through the General Extension Service the College of Education offers its services to any community making an effort to improve its system of public schools. The members of the faculty are ready at all times to address county and city teachers' meetings, women's clubs, and other organizations on educational topics. Any school problem whatever, which may arise, will be carefully considered and capable assistance given.

The Bureau of Tests and Measurements is maintained for the purpose of assisting the school systems of Arkansas in standardizing their work in the various grades. Only a small stock of tests is carried at the University, but the Bureau is ready at all times to put those interested in touch with the proper sources of supply. The Bureau will tabulate results, score papers, when necessary, and publish from time to time bulletins showing the comparative standing of the schools co-operating. The results will be interpreted by experts and recommendations made to the principals and superintendents as to possible changes in curriculum, standards of promotion, or treatment of individual cases.

A Recommendation Bureau is maintained to assist in placing students of the University in teaching positions. This service is free and has proved invaluable in bringing together good situations and suitable teachers.

RADIO BROADCASTING STATION.—The General Extension Service has charge of the programs sent out from the University's broadcasting station, KFMQ. This station, which has a 500

watt capacity and is now operating on a wave length of 299.8 meters, has been heard at points far up in Alaska, to the south of Mexico City, on the Atlantic and Pacific coasts, and in all intervening territory. It has reached all parts of Arkansas.

At present the station is giving programs regularly twice a week and irregularly at other times. In addition to musical programs, radio extension courses, consisting of series of talks by members of the faculty, are given on various subjects of interest to general audiences—science, home economics, engineering, agriculture, economics, education, etc.

SHORT COURSES.—Each year one or more short courses are given. The College of Engineering co-operates in giving an annual short course in engineering. In 1923-24 there was a course for commercial secretaries, and in 1924-25 a course for girl scout leaders. In this way groups of persons with common interests are brought together and given instruction which they probably could not get in any other way.

COLLEGE OF AGRICULTURE

The courses in the College of Agriculture are designed to train men for work in agriculture as farmers, farm managers, county agricultural agents, teachers of vocational agriculture, animal husbandmen, horticulturists, managers of farmers' organizations, marketing agents, research and extension specialists, and various other lines of work now open to graduates of colleges of agriculture; and to train women for work in Home Economics as teachers, vocational teachers in Smith-Hughes schools, county home demonstration agents, dietitians, managers of homes, and similar duties.

ADMISSION

For detailed statement of entrance requirements and descriptions of subjects accepted for entrance, see pages 23-32.

COURSES OF STUDY

The College of Agriculture offers the following courses:

1. A four-year general course in Agriculture, primarily for the training of general or diversified farmers, county agents and other agricultural extension workers.

2. A four-year course in Agronomy.

3. A four-year course in Animal Husbandry.

4. A four-year course in Dairying.

5. A four-year course in Horticulture.

6. A four-year course in Plant Pathology. (Requirements on application.)

7. A four-year course in Agricultural Chemistry. (Requirements on application.)

8. A four-year course in Entomology. (Requirements on application.)

9. A four-year combined course in Entomology and Plant Pathology. (Requirements on application.)

10. A four-year course in Agricultural Education for teachers in Smith-Hughes Vocational Schools, offered in conjunction with the College of Education.

All of the courses listed above lead to the degree of Bachelor of Science in Agriculture (B. S. A.). In addition, special short courses in agriculture are offered.

11. A four-year course in Home Economics.

12. A four-year course in Home Economics for the training of teachers in Smith-Hughes Vocational Schools offered in conjunction with the College of Education.

13. A four-year course for home demonstration agents.

The last three courses lead to the degree of Bachelor of Science in Home Economics (B. S. H. E.). In addition, special short courses are given for farm women and others.

REQUIREMENTS FOR DEGREES

BACHELOR OF SCIENCE IN AGRICULTURE

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily 210 credit hours as outlined in the following courses of study. The first two years are considered as foundation years and are the same for all courses in agriculture. The junior and senior years involve more highly specialized work.

Required subjects must be taken in regular order as scheduled. Courses with prerequisites cannot be taken out of their regular order without the consent of the head of the department and the Dean of the College.

*Four-Year General Course in Agriculture**Freshman Year*

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131 (132) (133).....	3	3	3
Chemistry 141 (142) (143).....	4	4	4
Botany 141 (142).....	4	4	..
Plant Pathology 143.....	..	..	4
Mathematics 131.....	3	..	..
Agronomy 142, (Crops).....	..	4	..
Horticulture 133 (Plant Propagation).....	..	..	3
A. H. 131 (Judging of Market Classes).....	3	..	..
Mech. Eng. 125 (Forge Shop).....	..	2	..
Mech. Eng. 124 (Wood Work).....	..	..	2
Agr. Eng. 113 (Graphic Methods).....	..	..	1
Military Art 111 (112) (113).....	1	1	1
	18	18	18

Sophomore Year

Agri. Chem. 241 (Quantitative Agricultural Analysis).....	4	..	..
Chem. 242 (Organic Chemistry).....	..	..	4
Psychology 230 (Gen. Psych).....	3	..	..
General Agriculture 213 (Orientation).....	..	..	1
Physics 144A (145A).....	4	4	..
A. H. 232 (Poultry).....	..	3	..
Geology 230 (Agri. Geology).....	3	..	..
Agron. 232 (233) (Soils).....	..	3	3
Agr. Eng. 231 (Farm Machinery).....	3	..	..
A. H. 231 (Dairying).....	..	3	..
Agr. Eng. 233 (Practical Farm Drainage).....	..	..	3
Horticulture 231 (Vegetable Gardening).....	..	..	3
Zoology 142, 134 (General Zoology).....	..	4	3
Military Art 211 (212) (213).....	1	1	1
	18	18	18

At the beginning of the junior year the candidate may choose the general course in agriculture, or a major subject in one of the various departments of the College, the choice of which will determine largely his course of study for the junior and senior years.

Students taking any of the major courses outlined on the following pages will choose from courses approved by the candidate's major professor so as to include for the junior and senior year not less than 30, nor more than 34, credit hours in the major subject.

In the more technical subjects not regularly offered before the junior year, i. e., Bacteriology, Entomology, and Veterinary Science, the major professor may advise that a substitution of not more than one-half of the hours required for a major be made from a related technical department. The electives in the junior and senior years must be chosen according to the adopted outline of the major.

General Course

The following course is prescribed for those who desire a general, or diversified, course in agriculture. This course is designed primarily for students who expect to become general farmers, county agents, other Agricultural Extension workers, and Smith-Hughes teachers.

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331 (332) (Advanced Composition).....	3	--	3
Public Speaking 735 (Pub. Sp. for Tech. Students) ..		3	--
Agronomy 431 (Cotton Production).....	3	--	--
Agronomy 332, 333 (Farm Crops).....	--	3	3
Plant Path. 333 or 334 (Diseases of Crops)	--	--	3
Agri. Engineering 442 (Farm Buildings).....	--	4	--
Bacteriology 351 (General Bacteriology).....	--	--	5
Entomology 252 (Gen. Econ. Entom.).....	5	--	--
A. H. 332 (Breeds and Pedigrees).....	3	--	--
Hort. 332 (Orchard Management).....	--	3	--
Electives	3	4	3
	17	17	17

Senior Year

Vet. Sci. 451 (Veterinary Science).....	5	--	--
Agron. 335 (336) (Soil Fertility).....	3	3	--
Farm Management 453 (Farm Management)	--	--	5
Economics 337, 338, 339 (Agri. Econ. and Marketing).....	3	3	3
A. H. 352 (Feeds and Feeding)	--	5	--
Hort. 333 (Small Fruits)	--	--	3
*Gen. Agri. 321, 322, 323 (Extension Problems)....	2	2	2
Electives	4 or 6	4 or 6	4 or 6
	17	17	17

Electives junior and senior years may be chosen from any department of the University of Arkansas, subject to the approval of the Dean of the College of Agriculture.

*Required of only those students who expect later to go into the Extension Service.

Agronomy Major Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331 (333) (Adv. Composition).....	3	..	3
Public Speaking 735 (Pub. Sp. for Tech. Students) ..	..	3	..
Agronomy 331, 332, 333 (Farm Crops).....	3	3	3
Plant Pathology 334 (Diseases of Field Crops) ..	..	..	3
Entomology 252 (Gen. Econ. Entomology).....	5	..	..
Bacteriology 351 (General Bacteriology) ..	..	..	5
Agri. Engr. 331 (Farm Motors) or 442 (Farm Buildings).....	..	3 or 4	..
Major Electives	3	3	..
Free Electives	3	4 or 5	3
	<u>17</u>	<u>17</u>	<u>17</u>

Senior Year

Economics 337, 338, 339 (Agri. Econ. and Marketing) ..	3	3	3
Agronomy 335 (336) (Soil Fertility).....	3	3	..
Agronomy 431 (Cotton Production) ..	3	..	..
Bot. 341 (Genetics) or 459 (Plant Phys.).....	4 or 5	3	3
Major Electives .....	..	3	..
Free Electives	3 or 4	8	11
	<u>17</u>	<u>17</u>	<u>17</u>

Electives in junior and senior years chosen under direction of the major professor.

Animal Husbandry Major Junior Year

English 331 (332) Adv. Composition).....	3	..	3
Public Speaking 735 (Pub. Sp. for Tech. Students) ..	..	3	..
Bacteriology 351 (General Bacteriology)...	..	..	5
Vet. Science 451 (Veterinary Science).....	5	..	..
A. H. 332 (Breeds and Pedigrees).....	3	..	..
A. H. 352 (Feeds and Feeding).....	..	5	..
A. H. 331 (Animal Breeding).....	..	..	3
A. H. 330 (Meat and Its By-products).....	..	3	..
A. H. 321, 322 (Live Stock Judging) ..	..	2	2
Botany 341 (Genetics).....	4	..	..
Electives	2	4	4
	<u>17</u>	<u>17</u>	<u>17</u>

Senior Year

Major Courses in Animal Husbandry....	12
Agri. Engr. 442 (Farm Buildings)...	4
Economics and Marketing.....	9
Electives	26

Electives in junior and senior years chosen under direction of the major professor.

*Dairying Major**Junior Year*

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331 (332) (Adv. Composition)	3	..	3
Public Speaking 735 (Pub. Sp. for Tech. Students) ..	..	3	..
Bacteriology 351 (General Bacteriology) ..	..	..	5
Botany 341 (Genetics) ..	4	..	..
A. H. 332 (Breeds and Pedigrees) ..	3	..	..
A. H. 351 (Feeds and Feeding) ..	..	5	..
A. H. 341 (Creamery Butter Making).....	4	..	..
A. H. 342 (Dairy Plant Management).....	..	4	..
A. H. 343 (Ice Cream Making) .....	..	..	4
A. H. 333 (Dairy Stock Judging).....	..	..	3
Electives	3	5	2
	17	17	17

Senior Year

Major Courses in Dairying	7
Agri. Engr 442 (Farm Buildings).....	4
Economics and Marketing.....	9
Electives	31

Electives in junior and senior years chosen under direction of the major professor.

*Horticultural Major**Junior Year*

English 331 (332) (Advanced Composition) ..	3	..	3
Public Speaking 735 (Pub. Sp. for Tech. Students) ..	..	3	..
Hort. 330 (Potato Production)	3	..	..
Hort. 332 (Orchard Management) .....	..	3	..
Hort. 333 (Small Fruits) .....	..	..	3
Bot. 341 (Genetics) or 459 (Plant Physiology).....	..	4 or 5	..
Bact. 351 (General Bacteriology).....	..	..	5
Ert. 252 (Economic Entomology).....	5	..	..
Major Electives .....	..	..	3
Free Electives	6	6 or 7	3
	17	17	17

Senior Year

Major Electives	4	6	9
Plant Pathology 333 (Diseases of Hort. Crops).....	..	..	3
Agri. Engr 331 (Farm Motors) or 442 (Farm Buildings) ..	..	3 or 4	..
Economics 337, 338, 339 (Agri. Econ. and Marketing)	3	3	3
Free Electives	10	4 or 5	2
	17	17	17

Electives in junior and senior years chosen under direction of the major professor.

	CREDIT HOURS		
	FALL	WINTER	SPRING
Art 114 (135) (136) (Elementary Design).....	3	3	3
Physical Education 111, 112, 113.....	1	1	1
	17	17	17

Note: Students who take the two term courses in clothing and foods will fill up the third term with an elective.

Sophomore Year

Zoology 241 (242) (243) (Human Zoology).....	4	4	4
Psychology 230.....	3	..	..
Chemistry 242 (Organic).....	..	..	4
H. E. 231 (Costume Design).....	3	..	..
H. E. 234, 235, 236 (Textiles, Clothing, Etc.).....	3	3	3
H. E. 238 (Health and Child Care).....	..	..	3
H. E. 232 (Household Survey).....	..	3	..
H. E. 230 (Foods—Family Meals).....	3	..	..
Physical Education 211, 212, 213.....	1	1	1
Electives.....	..	6	2 or 6
	17	17	17

After the second year the student may choose one of the following courses:

GENERAL COURSE

Junior Year

Modern Language.....	3	3	3
Bacteriology 352 (Household Bact.).....	5	..	..
English 531 (532) (533) (Outline of Literature)....	..	..	..
English 331 (332) (Comp) and Pub. Sp. 735.....	3	3	3
Journalism 537 (538) (539).....	..	..	..
Agri. Chemistry 341 (Physiological).....	..	4	..
*Electives.....	5	6	10
	16	16	16

Senior Year

Modern Language.....	3	3	3
H. E. 431, 432 (House Planning and Furnishing).....	3	3	..
H. E. 433 (Social, Legal and Economic Position of Women).....	..	..	3
H. E. 351 (Household Management).....	5	..	..
H. E. 334 (335) (336) (Dietetics).....	3	3	3
*Electives.....	2	7	7
	16	16	16

Vocational Home Economics Teacher-Training Course

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for

†Note—To be taken here if not taken in freshman year.

*See footnote, p. 145.

a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers in Vocational Home Economics in Smith-Higher Vocational Schools (see College of Education).

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Educ. Meth. 231 (Technique of Teaching).....	..	3	..
Educ. Prin. 233 (Principles of Secondary Educ.)....	..	..	3
Educ. Admin. 337 (Tests & Measurements).....	..	..	3
Educ. Admin. 230 (Class Room Administration)....	3	..	..
Educ. Meth. 352 (Home Ec. Methods).....	..	..	5
Bacteriology 352 (Household Bact.).....	5	..	..
Agri. Engr. 325 (Farm Home Conveniences).....	..	2	..
English 531 (532) (533) (Outline of Literature) } or English 331 (332) (Comp) and Pub. Sp. 735. } or	3	3	3
Journalism 537 (538) (539).....	..	..	..
Sociology or Economics.....	3	(3)	..
Agri. Chemistry 341 (Physiological).....	..	4	..
*Electives	2	4 (1)	2
	16	16	16

Senior Year

H. E. 334 (335) (336) (Dietetics).....	3	3	3
H. E. 431, 432 (House Planning & Furnishing).....	3	3	..
H. E. 433 (Social, Legal & Ec. Position of Women)	..	..	3
Education 350, 351 (Practice Teaching).....	5	5	..
H. E. 351 (Household Management).....	..	..	5
*Electives	5	5	5
	16	16	16

Home Demonstration Course

Junior Year

Economics or Sociology.....	3	(3)	..
H. E. 531 (Millinery).....	..	..	3
Agri. Engr. 325 (Farm Home Conveniences).....	..	2	..
A. H. 231 (Farm Dairying).....	..	3	..
Hort. 231 (Vegetable Gardening).....	..	..	3
†A. H. 232 (Farm Poultry Culture).....	..	3	..
A. H. 310 (Meat and Its By-Products).....	..	1	..
Journalism 537 (538) (539).....	..	..	..
English 331 (332) (Comp) and Pub. Sp. 735..... } or English 531 (532) (533) (Outline of Literature) } or	3	3	3
Agri. Chemistry 341 (Physiological).....	..	4	..
*Electives	10	0	7
	16	16	16

†A. H. 232 may be postponed to the senior year by those who take Sociology in the junior year.

*See footnote, p. 145.

Senior Year

H. E. 334 (335), (336) (Dietetics)	3	3	3
H. E. 431, 432 (House Planning & Management)	3	3	..
H. E. 433 (Social, Legal & Econ. Position of Women)	..	..	3
H. E. 531 (Home Mgt. Management)	5	..	..
Gen. Agr. 311, 312, 313 (Extens. Prof. in Agr.)	2	2	2
and H. E. 1	2	2	2
*Electives	3	8	8
	16	16	16

DEPARTMENTAL STATEMENTS

AGRICULTURAL CHEMISTRY

PROFESSOR READ, ASSOCIATE PROFESSOR SURE

Agricultural Chemistry deals mainly with the changes occurring in the soil, the growth and life of plants, animal nutrition, and the preparation of food products. The development of agriculture is calling for an ever-increasing number of chemists. Educational and commercial positions are open to both men and women, and there is an ever-growing demand and abundant opportunity for teachers, for investigators, and for professional agricultural chemists. The courses offered are planned to give the student in agriculture or home economics a broad view of the subject and to provide the proper training for instructional and experimental work in the various fields of chemical activity as applied to agriculture.

230. VITAMINS AND OTHER VITAL FOOD FACTORS.—The newly discovered food factors vital to the growth of bodily tissues and the maintenance of health, considered as to their properties; relative abundance in different foods; stability in canning, preserving, etc.; requirements in daily diet; relation to certain diseases and early senility. The mineral and the protein requirements for normal nutrition. Three lectures a week. Prerequisites: None. READ.

241. QUANTITATIVE AGRICULTURAL ANALYSIS.—The principles involved in volumetric and gravimetric operations; analysis of agricultural products, such as feeds and fertilizers; stoichiometry. Recitations two hours, laboratory six hours a week. Prerequisite: General Chemistry 143. Fall. Fee, \$4.00. READ.

245. ANALYSIS OF FOODS.—The application of quantitative methods employed in the analysis of the more common foods, and practice in testing for the presence of adulterants, preservatives and artificial coloring. Lectures and recitations two hours, laboratory six hours a week. Prerequisite: Chemistry 241. Winter. Fee, \$4.00. READ.

*To be chosen on advice of major professor. A maximum of 12 hours in music will be given as credit toward the degree of Bachelor of Science in Home Economics, including the first year's work. Not more than 6 hours may be taken in any one year.

330. THE CHEMISTRY OF INSECTICIDES AND FUNGICIDES.—Lectures, discussions, and a detailed study of the more recent literature dealing with the chemistry, the use, and the action upon insects and plants of the important insecticides and fungicides. The laboratory work will consist of the quantitative determination of certain constituents of the more important spraying and dusting materials. Lectures two hours, laboratory one period a week. Prerequisite: 241. Fee, \$3.00. READ.

334. CHEMISTRY OF DAIRY PRODUCTS.—The composition and analysis of milk, butter, and certain commercial dairy products; detection of adulterants and preservatives; the chemistry of fermentation. Lecture one hour, laboratory two periods a week. Prerequisite: 241. Fee, \$4.00. READ.

335. PLANT CHEMISTRY.—The chemistry and classification of plant constituents; the chemical processes involved in growth and nutrition, and the chemical changes occurring during ripening and storage of plant products. Lectures two hours, laboratory one period a week. Prerequisite 241. Fee, \$3.00. READ.

340. PHYSIOLOGICAL CHEMISTRY.—Special emphasis on the chemistry and physiology of carbohydrate, fat, protein, and mineral metabolism; the cell, enzyme action, digestion, absorption, etc. Recitations three hours, laboratory one period a week. Prerequisite: Organic Chemistry 242. Winter. Fee, \$4.00. READ.

341. PHYSIOLOGICAL CHEMISTRY AND HUMAN NUTRITION.—(Required of Home Economics Students.) The chemical composition and properties of foods and body substances; their general specific functions; the changes that take place in digestion and assimilation; enzymes and their functions, and general metabolism. Lectures three hours, laboratory one period a week. Prerequisite: Organic Chemistry 242. Fee, \$4.00. READ.

344. BIOCHEMISTRY.—A general course dealing with the organic and inorganic compounds found in plants and animals and the chemical changes involved in such processes as metabolism and growth. Lectures and recitations four hours a week. Prerequisite: 241. READ.

AGRICULTURAL ENGINEERING

PROFESSOR CARTER, MR. BARR

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Engineering.)

This department offers instruction involving the application of engineering principles to farm problems. The most important of these problems are (1) the construction, adjustment, operation, and selection of modern farm implements and power machinery; (2) the drainage and terracing of farm lands; (3) the selection, operation, and installation of modern home conveniences; and (4) the study of planning and construction of

sanitary and convenient farm barns, dwellings, and other buildings,

113. **GRAPHIC METHODS.**—The use of curves, charts, diagrams, and illustrations in the graphical representation of agricultural information. Actual plotting and charting is done in the laboratory. Instruction is also given in the use and care of drawing instruments; lettering and drafting, as a prerequisite to later courses. Laboratory two hours a week. No prerequisite. Fall or spring. Fee, \$0.50. **CARTER.**

231. **FARM MACHINERY.**—Materials of construction, simple machines, transmission of power; the construction, adjustment, care and use of machines used on the farm. Recitation two hours, laboratory three hours a week. No prerequisite. Fall. Fee, \$2.00. **BARR.**

233. **PRACTICAL FARM DRAINAGE.**—Farm drainage, including, use of instruments, mapping, land descriptions; designs, location, and construction of drainage systems; soil erosion and terracing. Recitation one hour, laboratory six hours a week. Prerequisites: Trigonometry and Soils. Spring. Fee, \$1.00. **CARTER.**

322. **FARM HOME CONVENIENCES.**—Sewage disposal; farm water supply; house heating; gas and electric lighting; farm light and power plants. Recitation two hours a week. No prerequisite. Winter. **CARTER.**

325. **FARM HOME CONVENIENCES.**—Similar to 322, arranged for women students. Recitation two hours a week. No prerequisite. Winter. **CARTER.**

331. **FARM MOTORS.**—Operation, care, repair, and adjustment of gas and oil engines and tractors, and their application to farm work. Carburetion, ignition, and lubrication. Recitation two hours, laboratory three hours a week. Prerequisite: Farm machinery. Fall or spring. Fee, \$2.00. **BARR.**

442. **FARM BUILDINGS.**—Planning of farm buildings with regard to economy, appearance, conveniences, and strength. Laboratory work includes complete plans and details of some farm buildings, with material list, cost estimates, blue prints and specifications. Recitations two hours, laboratory six hours a week. Prerequisite: Graphic Methods. Winter. Fee, \$1.00. **CARTER.**

425. **FARM SHOP MECHANICS.**—The mechanics of the farm shop, including farm repairs, soldering, pipe fitting, babbitting, knots, and splices. Combined lecture and recitation, two two-hour periods per week. Prerequisites: Mechanical Engineering 124, 125. Fee, \$2.00. Winter. **BARR.**

AGRONOMY

PROFESSOR NELSON, ASSOCIATE PROFESSOR SACHS, ASSISTANT PROFESSOR OSBORN, ASSISTANT PROFESSOR McCLELLAND, ASSISTANT PROFESSOR WARE, MR. JACOBSON

The courses are designed to meet the requirements of: (1) students who desire a knowledge of the subject as a part of a general education; (2) students who are interested especially in farm operations, or the management of land; (3) students who desire a technical knowledge of the subject as a preparation for teaching, or graduate or research work.

142. **AGRONOMY.**—An introductory course, including a study of the types and characters of plants representing the various classes of farm crops; the basis for, and significance of variety, difference, and quality; the use of score cards; the use of keys in the identification of smaller seeds, particularly those of grasses, clovers, alfalfa, and other legumes and forage crops; viability of seed, characteristic adulterants, weed seeds. Stress is placed upon staple crops. Recitation two hours, laboratory four hours a week. Winter. Fee, \$1.00. McCLELLAND.

212. **COTTON CLASSING.**—The relative value of cotton grades and the factors that determine them, with practical exercises in classing and stapling. Open to any student in the University in the sophomore, junior, or senior classes. Students in Agronomy 431-432 may not take this course. Winter. Fee, \$2.00. WARE.

232 (233). **SOILS.**—The origin, formation, physical properties, and classification of soils; soil moisture, its movements and methods of control, drainage, tillage, checking erosion; relation of different physical properties of soil to moisture holding capacity, temperature and aeration, with special reference to soil management. Lectures, recitations, and laboratory three hours. Prerequisites: 142 and Chemistry 141-143. Winter and spring. Fee, \$2.00 each term. SACHS, JACOBSON.

321. **EXPERIMENTAL METHODS.**—Conception and statement of problems; planning of experiments; suitable land or conditions; purpose and use of checks; possibility and probability of error; methods of record keeping, tabulation, and graphic representation of results. Prerequisites: 333, 431. Fall. McCLELLAND.

322. **SEED TESTING AND EXAMINATION.**—A study of the purity and quality of seeds, factors affecting germination, identification of weed seeds, use of germinators for official and home testing; purpose of seed legislation. Laboratory two periods a week. Winter. OSBORN.

323. **JUDGING AND GRADING.**—Factors determining the official grades of corn, rice, small grains, hay, and other crops. Judging of exhibits and market samples; practice in commercial grading. Laboratory two hours a week. Spring. McCLELLAND.

331. **FARM CROPS.**—A study of the small cereals, including rice. Soil and climatic adaptation; equipment for production; cultural and rotation practices, crop improvement, problems in

production, trend and results of recent experiment station work; commercial grades, marketing, and movements in the markets. Prerequisites: 142, 233. Fall. NELSON.

332. FARM CROPS.—A thorough study of the corn crop and the various saccharine and non-saccharine sorghums; including planting, cultivation, harvesting, storing, protection, utilization; marketing, its place in commerce; soil adaptation, methods of fertilization, retention the importance of improved varieties and strains; chief problems affecting production. A study of the nature and results of recent experiment station work. Prerequisites: 142, 233. Winter. NELSON.

333. FORAGE CROPS.—A study of forage crops for meadow and for pasture, including grasses, clovers, alfalfa, annual legumes, and other annual forage crops. Soil requirements and adaptation; production, handling, curing, and utilization; possibility and means of improvement; establishment and maintenance of stands, weed control. Prerequisites: 142, 233. Spring. NELSON.

335 (336). SOIL FERTILITY.—Crop requirements; nature and sources of plant food; exhaustion of soils, the maintenance and increase of fertility; green manures, farm manures, and commercial fertilizers; biological life of the soil; special attention to the nitrogen problem and liberation of mineral plant foods; effect of different systems of farming on productivity of the soil based on the study of older field experiments. Recitation and laboratory three periods a week. Prerequisite: 233. Fall and winter. Fee, \$3.00 each term. SACHS, JACOBSON.

337. SOIL CLASSIFICATION.—The basis for soil classification; the important soil types, with special reference to Arkansas and the South, in general, to familiarize students with the methods and objectives of soil survey work. Recitation and field practice three hours a week. Prerequisite: 233. Spring. Fee, \$2.00. SACHS.

431. COTTON PRODUCTION.—An advanced course in the production of cotton. Origin, history, production, composition; cropping systems. Study of the cotton plant and fiber; identification of groups, variety studies in the field. Recitation and laboratory three hours a week. Prerequisites: 142, 233. Fall. WARE.

432. COTTON HANDLING.—Cotton improvement by selection and breeding; harvesting, storing, and marketing. Laboratory practice in cotton classing and stapling. The Government Standards are used as a basis in classing. Recitation and laboratory three periods a week. Prerequisites: 142, 233. Winter. Fee, \$3.00. WARE.

433. PLANT BREEDING.—The practical application of the principles of variation and heredity in the breeding of crops. Special attention is given to the practical breeding of important crops. Recitation and laboratory practice three periods a week. Intended for senior students. Spring. WARE.

435. ADVANCED SOIL PHYSICS.—A study of mechanical

analysis; concentration of soil solution; soil heat, and other physical properties of the soil. Recitation, laboratory, and reports three periods a week. Prerequisite: 233. Fall. Fee, \$3.00. SACHS.

437. **ADVANCED SOIL FERTILITY.**—More intensive study of the important changes taking place in soil; i. e. ammonification, nitrification, nitrataion, sulfification. Recitation, laboratory, and reports three periods a week. Prerequisite: 336. Spring. Fee, \$4.00. SACHS.

434. **FIELD MANAGEMENT.**—This course is intended to summarize and harmonize views and practices. The study includes crop and soil adaptation; methods of tillage and their effects; effects of different types of farming; harmful practices, balanced systems, practical rotations; use of legumes, manures, composts, and commercial fertilizers in general farm practice; soil preservation and reclamation; corrective measures; prevention of erosion, effects of and disposal of surplus moisture; weed eradication, significance of seed selection, improved varieties, strains, and seed breeding. Fall. Open to seniors. NELSON.

421, 422, 423. **RESEARCH.**—Work in special problems; designed for advanced and graduate students. One to three hours a week. Fee, \$1.00 to \$3.00 a term, charged only in case laboratory equipment is used. NELSON.

ANIMAL HUSBANDRY AND DAIRYING

PROFESSOR DVORACHEK, ASSISTANT PROFESSORS MASON, STOUT, MARTIN, MR. WILBANKS, MR. ALEXANDER

The courses are designed to train students in the selection, feeding, breeding, and management of farm animals. The live stock and poultry owned by the department are used for class work. Students interested in dairying have an opportunity to select courses designed to train them in creamery and ice cream plant management. The department operates a commercial dairy plant for this purpose.

131. **JUDGING TYPES AND MARKET CLASSES.**—Practice in scoring types and market classes of sheep, swine, cattle, and horses, using the score card, followed by comparative judging. Emphasis given standardization and grading in marketing live stock. Lectures and recitations one hour, laboratory four hours a week. No prerequisites. Fall. ALEXANDER, MASON.

231. **FARM DAIRYING.**—The composition of milk, causes of variation in composition, abnormal milk and its causes, bacteria in milk products, the lactometer, Babcock testing, milk separation, farm butter making, handling dairy products on the farm, and marketing dairy products. Lectures and recitations one hour, laboratory six hours a week. Prerequisites: Chemistry 141-143. Winter. Fee, \$3.00. MASON, WILBANKS.

232. **FARM POULTRY CULTURE.**—The principles of the following subjects in the order given: Breeds, housing, feeding,

breeding, incubation, brooding, poultry products, diseases, management, and marketing. Lectures and recitations three hours a week. No prerequisites. Winter. STOUT.

310. CUTTING AND CURING MEATS.—Meat cutting demonstrations showing the various cuts of pork, beef, veal and mutton. Curing meats on the farm. Utilization of various meat cuts. Lectures or recitations one hour. Open only to Home Economics students and women students from other colleges. Winter. Fee, \$2.00. DVORACHEK.

321. JUDGING BREED TYPES OF SHEEP AND SWINE.—Scoring and comparative judging of breed types of sheep and swine. Breed characteristics given special attention. Animals from the college herds supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours a week. Prerequisites: 131, 332. Winter. ALEXANDER.

322. JUDGING BREED TYPES OF BEEF CATTLE AND HORSES.—Scoring and comparative judging of breed types of beef cattle and horses. Breed characteristics given special attention. Animals from the college herds supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours. Prerequisites: 131, 332. Spring. ALEXANDER.

323. POULTRY JUDGING.—Scoring, and judging by comparison, standard breeds and varieties of poultry for show room and utility. Birds from the college flocks and those entered in the Arkansas State Egg Laying Contest used for class work. Laboratory six hours a week. Prerequisite: 232. Fall. STOUT.

330. MEAT AND ITS BY-PRODUCTS.—The slaughtering and dressing of meat animals; meat cutting, curing, and utilization of meat by-products. Lectures and recitations two hours, laboratory three hours a week. Elective only for junior and senior students. Winter. Fee, \$2.00. DVORACHEK.

331. ANIMAL BREEDING.—The principles and the various systems of animal breeding; the application of the principles of genetics to practical animal breeding. Prerequisite: Genetics Bct. 341. Spring. MARTIN.

332. BREEDS AND PEDIGREES.—The origin, history, development, breed characteristics, and adaptation of the more important breeds of horses, beef cattle, dairy cattle, swine, and sheep. Pedigree work with prominent individuals of the various breeds. Prerequisite: 131. Fall. ALEXANDER, MASON.

333. DAIRY STOCK JUDGING.—Scoring and comparative judging of breed types of dairy cattle. Classification of animals in the show ring. Required of students competing for place on dairy judging team. Laboratory nine hours a week. Prerequisites: 131, 332. Spring. MASON.

341. CREAMERY BUTTER MAKING.—The principles of creamery butter making; construction, care, and equipment of creameries; methods of sampling and grading cream; pasteurizing; starter

making; cream ripening. Lectures and recitations two hours, laboratory six hours a week. Prerequisite: 231. Every term. Fee, \$3.00. WILBANKS.

342. DAIRY PLANT MANAGEMENT.—Principles of dairy plant management including accounting, correspondence, equipment, disposal of products, utilization of labor and machinery. Lectures and recitations two hours, laboratory four hours a week. Prerequisites: 231, 341, or 343. Winter. WILBANKS.

343. ICE CREAM MAKING.—A study of ice creams, sherbets, and ices, standardizing, mixes, freezing, packing, scoring, and marketing. Lectures and recitations two hours, laboratory six hours a week. Prerequisite: 231. Spring. Fee, \$3.00. WILBANKS.

352. FEEDS AND FEEDING.—The principles of animal nutrition, digestibility of feeds, composition, value, and preparation of feeds; use of silos; selection of feeds for balanced rations, and the economical feeding of all classes of farm animals. Prerequisite: Agricultural Chemistry 241 or Chemistry 242. Winter. DVORACHEK.

420. HANDLING POULTRY AND EGGS FOR MARKET.—Poultry fattening, dressing, storage, and shipping. Egg candling, storage, grading, packing, and handling for market. Lectures and recitations two hours a week. Prerequisite: 232. Fall. STOUT.

421. MARKET MILK AND DAIRY INSPECTION.—Different classes of market milk, transportation, storage, marketing, and accounting. Practice in the use of score cards for inspecting milk plants, dairy farms, and creameries. Lectures and recitations one hour, laboratory three hours a week. Prerequisites: 231, Bact. 351. Spring. MASON.

422. JUDGING DAIRY PRODUCTS.—Judging market milk, butter, cheese, and other dairy products. Laboratory six hours a week. Prerequisite: 231. Spring. Fee, \$3.00. MASON.

431. ADVANCED LIVE STOCK JUDGING.—Show ring judging of breed types and market classes of sheep, swine, beef cattle, and horses. Required of major students training for live stock judging contests. Laboratory nine hours a week. Prerequisites: 131, 342, 321, 322. Fall. ALEXANDER.

433. PORK PRODUCTION.—An advanced course in pork production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours a week. Elective only for major and graduate students. Winter. MARTIN.

435. POULTRY PRODUCTION.—An advanced course in poultry production. Practical work in incubation, brooding, chick raising, and flock management. Lectures and recitations one hour, laboratory six hours a week. Prerequisite: 232. Winter. Fee, \$3.00. STOUT.

436. BEEF PRODUCTION.—An advanced course in beef production and marketing from the standpoint of both the farmer and

the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitation three hours a week. Elective only for major and graduate students. Winter. ALEXANDER.

437. MILK PRODUCTION.—Dairy farm management and the marketing of dairy farm products, from the standpoint of both the farmer and the special dairyman. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours a week. Elective only for major and graduate students. Fall. MASON.

438. MEAT AND WOOL PRODUCTION.—An advanced course in meat and wool production, from the standpoint both of the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitation three hours a week. Elective only for major and graduate students. Spring. ALEXANDER.

439. CHEESE MAKING.—The principles and practices of commercial and farm cheese making. Fermentation tests, acidity tests, standardization, curdling, salting, and marketing. Lectures and recitations one hour, laboratory six hours a week. Winter. Fee, \$2.00. WILBANKS.

450. ANIMAL PRODUCTION.—A general course in the feeding, breeding, care, and management of horses, beef cattle, swine, and sheep. The equipment necessary for practical production of animals will also be considered. Lectures and recitations three hours, laboratory four hours a week. Prerequisite: 352. Spring. DVORACHEK.

423 (424) (425). ANIMAL HUSBANDRY AND DAIRY RESEARCH.—Senior students majoring in Animal Husbandry or Dairying, and graduate students may, with the consent of their major professor, elect this course. Special problems assigned. Not more than two credits a term allowed. DVORACHEK.

BACTERIOLOGY AND PATHOLOGY

PROFESSOR BLEECKER

The courses in bacteriology are so arranged as to give the student an understanding of the morphology, distribution, and physiological activities of microorganisms and their economic relation to agriculture and the home, including sanitation and public health.

351. GENERAL BACTERIOLOGY.—Elementary bacteriology so designed as to give the student an understanding of the morphology, classification and physiological activities of bacteria. Recitation three hours, laboratory six hours a week. Prerequisites: Agri. Chemistry 241, Botany 142. Spring. Fee, \$5.00. BLEECKER.

352. HOUSEHOLD BACTERIOLOGY.—Introductory study of the morphology, classification, and physiological activities of bacteria, yeasts, and molds is followed by a study of sanitation

and the relation of these micro-organisms to the home. Recitation three hours, laboratory six hours a week. Prerequisites: Agri. Chemistry 341, Zoology 241, or Botany 141. Fall. Fee, \$5.00. BLEECKER.

543. AGRICULTURAL BACTERIOLOGY.—The bacteria of the soil and water, and those of milk and milk products. Recitation two hours, laboratory four hours a week. Prerequisite: Bacteriology 351 or 352. Winter. Fee, \$5.00. BLEECKER.

544. PATHOGENIC MICROBIOLOGY.—Disease producing micro-organisms, the diseases they produce, their dissemination and control. Recitation two hours, laboratory four hours a week. Prerequisite: Bacteriology 351 or 352. Winter. Fee, \$5.00. BLEECKER.

510, 540. SPECIAL PROBLEMS.—An elective course in bacteriology. Definite problems under direction of the instructor, selected from either pathogenic, dairy, or soil bacteriology. The amount of credit depends upon the problem selected and the time necessary to complete it. Prerequisite: Bacteriology 351 or 352. Fall, winter or spring. Fee, none. BLEECKER.

545. SANITARY BACTERIOLOGY.—This course is planned particularly for students in the College of Engineering of junior or senior standing and consists of a study of bacteriology, with particular reference to water supply and sewage disposal. Lecture and recitation two hours, laboratory four hours a week. Prerequisite: General Chemistry. Winter. Fee, \$5.00. BLEECKER.

ENTOMOLOGY

PROFESSOR BAERG, ASSOCIATE PROFESSOR ISELY

The courses are concerned with insects and their near relatives; their habits and life histories, the recognition of the important species and groups, and the remedial and preventive measures for the forms that destroy crops, transmit disease, and annoy man and domestic animals.

131. NATURE STUDY.—ANIMAL LIFE.—Intended for students interested in the out-of-doors, and those expecting to teach. Lectures two hours, field trip three or four hours a week. Prerequisite: None. Spring. Fee, \$2.00. BAERG.

252. GENERAL ECONOMIC ENTOMOLOGY.—All the important orders of insects, including the common insect pests of farm, garden, and orchard, as well as the common parasites of domestic animals and the insects that annoy man. Lectures three hours, laboratory six hours a week. Prerequisite: None. Fall. Fee, \$2.50. BAERG.

333. INSECTS AND DISEASE.—Insects and other Arthropods that annoy man and animals and are concerned in the transmission of diseases. Lectures two hours, laboratory two hours a week. Prerequisites: 252, or Zoology 143 or 144. Winter. (Given in alternate years.) Fee, \$2.00. BAERG.

334. ECONOMIC ENTOMOLOGY.—FRUIT AND TRUCK CROP IN-

SECTS.—Detailed study of life history and control of the more important insects attacking fruit and truck crops. Lectures and recitations two hours, laboratory two hours a week. Prerequisite: 252. Alternates with 335. Winter. Fee, \$1.00. ISELY.

335. ECONOMIC ENTOMOLOGY.—FIELD CROP INSECTS.—Detailed study of the life history and control of the more important insects attacking field crops. Lectures and recitations two hours, laboratory two hours a week. Prerequisite: 252. Winter. (Not offered in 1925-26.) Fee, \$1.00. Alternates with 334. ISELY.

336. SYSTEMATIC ENTOMOLOGY.—The classification of insects with special reference to the more important economic groups. Laboratory two hours a week for one hour credit; credit, two, three, or four hours a term. Spring. Fee 75 cents for each credit hour. ISELY.

338. MORPHOLOGY OF INSECTS.—Study of the external anatomy of insects. Must be preceded or accompanied by 252. Laboratory six hours a week. Fall. Fee, \$2.00. BAERG.

Upon sufficient demand, advanced courses will be given in Systematic Entomology, Morphology of Insects, and Economic Entomology.

FARM MANAGEMENT

PROFESSOR McNAIR

This department offers courses to acquaint the student thoroughly with the business side of agriculture, especially the organization and operation of the farm as a business unit. It deals with the factors of cost of production, with questions of leases and tenantry, and other applications of Agricultural Economics. Each subject matter course in other departments in the College of Agriculture teaches the ordinary processes of marketing each product. The Department of Farm Management teaches only those subjects in marketing which are general in their application.

453. FARM MANAGEMENT.—General principles of farm management, choice of farm, types of farming, farm organization and administration, factors and cost of production, records, and accounts. Lectures and problems. Also visits to farms. Spring. McNAIR.

GENERAL AGRICULTURE

DEAN GRAY, ASSISTED BY MEMBERS OF TEACHING AND
EXTENSION FORCES

213. AGRICULTURAL ORIENTATION.—A course to (1) inform agricultural students relative to prospective opportunities for those who prepare for service in the various fields of work open to graduates of the College of Agriculture, and (2) outline the relationship between technical agricultural subjects and

other kinds of subject matter. One lecture a week. Spring GRAY.

321, 322, 323. *EXTENSION PROBLEMS IN AGRICULTURE AND HOME ECONOMICS*.—A course designed to train students in Extension methods. The fall term will be devoted to lectures by various members of the Agricultural Extension staff. The winter and spring terms will consist of laboratory work in Washington County under the direction of the Home Demonstration Agent and the County Agent. Required of students who expect to enter Agricultural Extension Service. GRAY.

HOME ECONOMICS

ACTING PROFESSOR TAYLOR, MISS NELSON, MISS JOHNSON,
MISS KEEVER, MISS GWATHMEY

131 (132) (133). *ELEMENTARY CLOTHING*.—Designed to give skill in using and caring for sewing machines, in taking accurate measurements, and in adapting commercial patterns. The comparison and selection of materials for their appropriateness, as well as for their economic value. Lecture one hour, laboratory five hours a week. Art 134-136 parallel or prerequisite. Fee, 50 cents each term. NELSON, JOHNSON.

134 (135). *ELEMENTARY CLOTHING*.—(Adv. Sec.)—The same as above, but adapted to the needs of students offering an admission unit in clothing. Art 134-136 parallel or prerequisite. Fee, 50c each term. NELSON, KEEVER.

136 (137). *ELEMENTARY FOODS*.—This is the introductory course in foods; it consists of the principles of selection, preparation, and use of various foods with laboratory practice. Lecture one hour, laboratory four hours a week. Prerequisite or parallel: Chemistry 141 (142) (143) or 144 (145). Fee, \$5.00 each term. Fall, winter. JOHNSON.

138. *ELEMENTARY FOODS*.—(Adv. Sec.)—The same as 136 (137), but adapted to the needs of students offering an admission unit in foods. Prerequisite or parallel: Chemistry 141 (142) (143) or 144 (145). Fee, \$5.00. Fall. JOHNSON.

139. *FOOD MARKETING*.—A study of food markets; brands, grades, and containers of commercial goods; market units of package and bulk goods; food preservation; practice demonstrations in canning, preserving, pickling, and jelly making. Prerequisite: H. E. 136 (137) or 138. Lecture one hour, laboratory four hours a week. Fee, \$5.00. Spring. TAYLOR.

230. *FAMILY MEALS*.—The dietetic, aesthetic, and economic aspects of meal planning are studied. Students have practice in planning, buying, preparing and serving family meals and simple refreshments for entertaining. Table service for families without servants is practiced. Equipment for kitchen and dining room is studied. Prerequisite: H. E. 139. Lecture one hour, laboratory four hours a week. Fee, \$5.00. Fall. TAYLOR, JOHNSON.

231. **STUDY OF COSTUME.**—The principles of design and color harmony applied to costume. Lecture one hour, laboratory four hours a week. Prerequisite: Art 134-136. Fee, \$1.00. Fall. PALMER.

232. **HOUSEHOLD SURVEY.**—A study of the principles underlying a successful home life which includes family and community relationships, standards of living, budgets, financial problems, and women's responsibility for judicious expenditure of time and income. This subject will also deal with a brief survey of the literature most useful in home economics. Prerequisite: H. E. 136 (137) or 138. Winter. JOHNSON.

235. **TEXTILES.**—The source of supply, structure, manufacture, and relative value of fabrics. Laboratory practice in weaving, in the identification of fibres, and the analysis of fabrics; special methods of laundering and dyeing. Lecture one hour, laboratory four hours a week. Prerequisites: 131 (132) (133); Chemistry 141 (142) (143). Winter. Fee, \$2.00. NELSON.

234 (236). **CLOTHING ECONOMICS.**—The technique and principles of costume designing and their practical application in the design and construction of garments; the use by each student of patterns drafted and modeled by herself to her own measurements. Lectures and laboratory six hours a week. Prerequisites: 131 (132) (133), Art (134) (135) (136). Fall and spring. Fee, \$1.00 each term. NELSON, KEEVER.

238. **HEALTH AND CHILD CARE.**—The fundamental principles of personal hygiene and the home care of the sick. Special consideration is given to the care, feeding, and training of children in the home. Lecture two hours, laboratory two hours a week. Spring. Fee, \$1.00. TAYLOR.

323. **ADVANCED FOOD PREPARATION.**—An elective course for those who desire special training in the preparation of attractive dishes for each course in the meal. Two two-hour laboratory periods a week. Prerequisites: 136 (137) or 138. Spring. Fee, \$5.00. TAYLOR.

334 (335) (336). **DISEASES.**—The fundamental principles of human nutrition as applied to individuals under normal conditions. The specific functions in the body of carbohydrates, proteins, fats, minerals and vitamins; diets that are adequate in energy, protein, mineral, bulk, and vitamins; prenatal and child feeding, in infancy, pre-school age, school age, and adolescence; pathological conditions chiefly dependent upon diet, such as nephritis, diabetes, gastric ulcer, etc. Prerequisites: Zool. 241 (242) (243); Chem. 242, Agri. Chem. 341. Fee, \$4.00 per term. TAYLOR.

351. **HOUSEHOLD MANAGEMENT.**—This course is conducted in the practice home. The students live there in a group and, under the supervision of an instructor, perform the usual household tasks such as buying, planning, preparing and serving meals, cleaning house, and keeping household accounts. Each

student lives in the practice home for six weeks and attends lectures and recitations held twice a week, throughout the term. Prerequisites: 230 and 237. Fee, living expenses borne by students. Fall, winter and spring. **JOHNSON.**

431. **HOUSE PLANNING.**—A study of the situation, sanitation, and construction of the house, the application of the principles of design to exteriors, the cost of building and maintenance. Laboratory includes the making of floor plans and elevations. Lecture one hour, laboratory four hours a week. Prerequisite: Art 134 (135) (136). Fall. Fee, 50c. **GWATHMEY.**

432. **HOUSE FURNISHING.**—The principles of design and color applied to the interior decorating and furnishing of a house; problems in costs. Lecture one hour, laboratory four hours a week. Prerequisite: 431. Winter. Fee, 50c. **GWATHMEY.**

433. **SOCIAL, LEGAL, AND ECONOMIC POSITION OF WOMEN.**—A history of the development of woman's standing in the family and community; biographical study of women leaders in scientific fields; laws pertaining to women and children. Lectures and recitations three hours a week. Open to seniors. Prerequisite: Economics or Sociology. Spring. **NELSON.**

531. **MILLINERY.**—The designing and drafting of patterns for different types of hats, including the principles underlying their construction and trimming. A model of each type made by each student. Lecture one hour, laboratory four hours a week. Spring. Prerequisites: 131 (132) (133) or 134 (135) and Art 134 (135) (136). Fee, \$1.00. **NELSON.**

511-541. **SPECIAL PROBLEMS.**—The student may elect some special problem in the major subject for research. Conferences with the instructor. Open to seniors and graduate students. Winter or spring. **TAYLOR.**

For Home Economics Methods (Educ. Methods 352) see College of Education.

Home projects during the summer vacation will be planned in all courses where necessary to meet individual needs.

HORTICULTURE

PROFESSOR COOPER, ASSISTANT PROFESSOR RAPP, MR. WIGGANS

The courses offered are designed to give the student a thorough knowledge of the principles and practices of the various phases of horticulture. The work is so arranged that it will meet the needs of students interested in its practical application, or of students who desire a technical knowledge of the subject as a preparation for college teaching or research work.

133. **PLANT PROPAGATION AND NURSERY PRACTICES.**—A study of the science and art of reproducing and multiplying fruits, vegetables, ornamentals, shade and forest trees. Construction and use of hotbeds and coldframes. General nursery practices. Establishment and care of fruit plantations up to bear-

ing age. Lecture one hour, laboratory six hours a week. Prerequisites: Botany 141, 142. Spring. Fee, \$1.00. WIGGANS.

341. **VEGETABLE GARDENING.**—The general principles of vegetable growing and the practical problems involved in handling the various crops, with special emphasis upon farm, home, and back yard gardens; cultural methods; varieties; plant growing; soils and fertilizers; insect and disease control, and harvesting. Lecture two hours, laboratory three hours a week. Prerequisite: 133. Spring. Fee, \$1.00. RAPP.

330. **POTATO PRODUCTION.**—Production, handling, and storage of sweet and Irish potatoes. Lecture two hours, laboratory three hours a week. Prerequisites: 133, 231. Fall. RAPP.

332. **ORCHARD MANAGEMENT.**—The cultural methods best adapted to different kinds of fruit, including types of soils, air and water drainage, soil, fertility, fertilizers, cover and companion crops, and the theory and practice of pruning. Lecture two hours, laboratory three hours a week. Prerequisite: 133. Winter. COOPER.

333. **SMALL FRUITS.**—Grapes, cane fruits, and strawberries. Conducted in such manner that the students will have thorough knowledge of how such fruits should be handled to obtain the best results from both home and commercial production. Lecture two hours, laboratory three hours a week. Prerequisite: 133. Spring. WIGGANS.

432. **MARKET GARDENING.**—Vegetable gardening with special reference to the Arkansas trucking crops; methods of growing and handling cantaloupes, watermelons, cucumbers, tomatoes, radishes, beans, etc.; fertilizers, special cultural methods, insect and disease control; harvesting, grading, packing, storage, and refrigeration. Lecture two hours, laboratory three hours a week. Prerequisites: 133, 231. Winter. RAPP.

434. **LANDSCAPE GARDENING.**—A general consideration of the principles of landscaping with special attention to city and suburban properties, and the engineering work incidental thereto. The student will prepare maps and plans; and also become familiar with the more commonly used plant materials. Lecture two hours, laboratory three hours a week. Prerequisites: Agricultural Engineering 113, Botany 141 (142) Winter. Fee, \$1.00. COOPER.

435. **LANDS APE GARDENING.**—Special problems such as playgrounds, city parks, street planting, civic centers. Practical experience in identification, planting and transplanting will be given during this term. Lecture one hour, laboratory six hours a week. Prerequisite: 434. Spring. Fee, \$1.00. COOPER.

437. **SPRAYING AND SPRAY MATERIALS.**—To give a thorough practical knowledge of insecticides and fungicides and methods of application, together with practice in operating the various kinds of spraying machinery and equipment. Lecture two hours, laboratory three hours a week. Prerequisites: 133, 231. Spring. Fee, \$2.50. RAPP.

441. **HARVESTING AND REFRIGERATION.**—The general principles in harvesting, grading, packing, storing, and shipping fruits for market. Methods of handling fruit and all the operations concerned. Storage, refrigeration, and transportation. Different orchards, packing houses, storage houses, and loading stations, will be visited, and construction, operation, and methods studied. Lecture two hours, laboratory six hours a week. Prerequisites: 231, 332. Fall. Fee, \$2.50. COOPER.

531, 532, 533. **EXPERIMENTAL HORTICULTURE.**—Assigned problems in horticulture, collecting and compiling of experimental data. Laboratory problems, and work in experimental projects in the station fields, and at other points where experimental work is being conducted by the Department. Assigned only to students with sufficient fundamental preparation. Credit: 1-3 hours. COOPER.

536, 537, 538. **HORTICULTURAL PRACTICUMS.**—Practice in the different phases of fruit and vegetable production. Designed to give students a working knowledge of the different operations involved and to train them in the Art of Horticulture. COOPER, RAPP, WIGGANS.

PLANT PATHOLOGY

PROFESSOR YOUNG, ASSOCIATE PROFESSOR ROSEN

The courses are designed to give the student a knowledge of the origin, causes, and methods of control of plant diseases both in practical use and as a preparation for special research work in plant pathology. The advanced courses may be elected by students choosing Plant Pathology or Botany as a major.

143. **PRINCIPLES OF PLANT PATHOLOGY.**—Causes, symptoms, effects, and means of spread of disease in plants; principles of plant disease control; laboratory work with various types of plant diseases and the different groups of plant diseases and the different groups of plant parasites. Lectures and recitations two hours, laboratory four hours a week. Prerequisite: Botany 141-142. Spring. Fee, \$2.50. YOUNG, ROSEN.

333. **DISEASES OF HORTICULTURAL CROPS.**—A comprehensive study of the more important diseases of the principal horticultural crops. Lecture one hour, laboratory four hours a week. Prerequisite: Plant Pathology 143 or 352. Spring. Fee, \$3.00. YOUNG, ROSEN.

334. **DISEASES OF FIELD CROPS.**—Similar to Plant Pathology 333, but dealing with the principal diseases of the more important field crops. Lecture one hour, laboratory four hours a week. Prerequisite: Plant Pathology 143 or 352. Spring. Fee, \$3.00. YOUNG, ROSEN.

352. **PLANT DISEASES.**—Diseases of plants in relation to parasites and environment; conditions inducing disease, the reaction of diseased organisms, and the methods of disease control. Lectures and recitation three hours. Laboratory four

hours. Prerequisite: Botany 141-143. Winter. Fee, \$3.00. YOUNG, ROSEN.

442. MORPHOLOGY OF FUNGI.—The forms and structure of fungi. Lectures and recitations one hour, laboratory eight hours a week. Prerequisites: Botany 141, 213. Fall. Fee, \$3.00. YOUNG.

435, 436, 437. PLANT PATHOLOGY METHODS.—The preparation of various artificial nutrient media and the technique of isolating and culturing parasitic fungi and bacteria. Emphasis placed on bacteria in relation to plant diseases. Lectures and recitations one hour, laboratory four hours a week. Prerequisites: 352, Bacteriology 351. Fee, \$2.00 each term. ROSEN.

521 (522) (523). PLANT PATHOLOGY RESEARCH.—A special problem to be assigned only to students who take Plant Pathology as a major. Prerequisite: 435-437. YOUNG, ROSEN.

Upon sufficient demand, courses will be offered in Poisonous and Edible Fungi, Diseases of Forest Trees, and Pathological Plant Anatomy.

VETERINARY SCIENCE

ASSOCIATE PROFESSOR SCHILLING

Agriculture is founded upon the production of plants and animals. Disease frequently is the limiting factor in the successful live stock production. The man who has a basic knowledge of disease has a signal advantage as an agricultural worker. The courses offered in this department are designed to give a student training so that he may be of greater usefulness in the prevention and control of diseases of domestic animals.

451. VETERINARY SCIENCE.—This course offers a study of the anatomy and physiology of domestic animals, particularly as related to the maintenance of health and the diagnosis and treatment of disease. Actual experience in vaccination and in minor surgery and in the utilization of other clinical material is provided. Laboratory eight hours, quiz one hour a week. Fee, \$5.00. SCHILLING.

422, 423. PRACTICUMS.—These courses afford opportunity for the student to work with the instructor in attending cases arising among animals owned by the University. They also provide for the study of special problems in the field of Veterinary Science by the utilization of case, laboratory, and reference methods. Work and hours arranged upon consultation with the instructor. One or two hours credit. Prerequisite: Veterinary Science 451. SCHILLING.

AGRICULTURAL TRAINING COURSE

A course is offered to trainees of the United States Veterans' Bureau, which is intended to give sufficient knowledge and practice in agriculture and related subjects to fit them to operate a farm in dairying, fruit, truck, general crops, poultry or other

live stock. Although primarily intended for trainees of the United States Veterans Bureau, other mature persons who have at least a grammar school education may enter this course. An outline of the course will be furnished upon request.

AGRICULTURAL EXPERIMENT STATION

PURPOSE

The purpose of the Experiment Station is to determine facts, work out problems, and make investigations that have a bearing upon the agriculture of the state and the country in general. The results of investigations are published in bulletin form and distributed free. All information in possession of the various departments of the institution is available to citizens of the state upon request. The farmer is in this way relieved of the time, labor, and expense involved in working out experiments for himself. He also receives the benefit of facts that only the best trained specialists are capable of determining. Practically all of the agricultural information that we possess and put into practice is based upon experiment station efforts. The results of the Experiment Station work constitute a large part of the foundation for the work of the Agricultural Extension Service.

STAFF

The working staff of the Experiment Station is practically identical with the teaching force of the College of Agriculture. Members of the staff are required to do both teaching and research work in their respective fields. The work of the station is continuous throughout the year. Research work constitutes the major burden of the staff.

The *Department of Agricultural Chemistry* carries on investigations dealing with the application of chemistry to agriculture. Its laboratories are fitted with improved modern apparatus and equipment. Its investigative work is chiefly concerned with the chemistry of soils, feedstuffs, foods, fertilizers, spray materials, and the chemistry of animal and of plant nutrition.

The *Department of Farm Management* is conducting investigations, in co-operation with the United States Department of Agriculture, in systems of farming in Arkansas, farm management problems in Arkansas, labor requirements for different crops, cost of production, and similar subjects. This Department was first established in 1920. As its duties increase, other work of investigational nature, including the subject of rural organization, co-operative organizations, and marketing, will be undertaken.

The *Department of Agricultural Engineering* is conducting investigations on the subjects of farm machinery, farm buildings and other structures, farm motive power, farm drainage, terracing, fencing, and other problems.

The *Department of Agronomy* carries on investigations with farm crops, testing and breeding new and pure varieties of cot-

ton, corn, grains, grasses for hay and pasture, clovers and other agricultural crops. It also conducts experiments in soil fertility and the management of soils for different crops. This work is carried on at the experimental farms, the main station, and the sub-station. A special feature is the work with cotton and corn at the sub-station at Scott.

The *Department of Animal Husbandry* carries on investigations in the feeding, breeding, and management of farm animals, including poultry. Well selected herds of dairy cattle, beef cattle, and hogs are maintained for this purpose. A well equipped and well stocked poultry plant is also maintained. In connection with this department a model dairy, equipped with improved dairy machinery and laboratories, is conducted for instructional and experimental purposes.

The *Department of Bacteriology* conducts investigations and research relative to the causes and character of animal diseases and the means of combating them.

The *Department of Entomology* conducts investigations in the life histories of insects injurious to agriculture and the methods of exterminating such insects.

The *Department of Horticulture* is equipped with grounds, machinery, and laboratories suitable for conducting experiments in fruit growing and vegetable gardening. Problems of practical importance are worked upon experimentally to aid the grower in his cultural work. Variety study of fruits and vegetables, pollination of the apple, orchard fertilization, pruning, grading, and packing are major projects for experiments in this department.

The *Department of Plant Pathology* carries on investigations of plant diseases with reference to their nature, cause of development, and means of combating and eradicating them.

The *Department of Veterinary Science* supervises state inspection for contagious diseases of animals and for the eradication of cattle tick. It operates the state serum plant and supplies serum at cost; it investigates also the best means of prevention and control of diseases of animals.

AGRICULTURAL EXTENSION SERVICE

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GUS M. OEHM, *Editor*

T. ROY REID, *Assistant Director*

J. P. BELL, *Assistant Editor*

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J. C. BARNETT, *District Agent*

H. K. THATCHER, *District Agent*

J. E. MCKELL, *District Agent*

E. B. WHITAKER, *District Agent*

COUNTY FARM DEMONSTRATION AGENTS

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G. W. WARE, *Ass't*

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PAUL L. WELLS

F. H. WHITAKER

E. J. WILLIS

HOME DEMONSTRATION WORK

MISS CONNIE J. PONSLEIGH, *State Home Demonstration Agent*

MISS ALICE BRIDGES, *District Agent*

MISS SALLIE CHAMBERLAIN, *District Agent*

MRS. IDA FENTON, *District Agent*

MISS ELLA POSEY, *District Agent*

COUNTY HOME DEMONSTRATION AGENTS

ADRIAN, PERMELIA
ALEXANDER, ALMA
ALLEN, MINNIE T.
ASHE, LEOLA
BETTS, JENNY
BLACKFORD, BEATRICE
BLAKELY, MAE
BURKS, EVANGELINE
CASTLEBERRY, GENEVA
COLEMAN, CORA LEE
DEDEN, LILLIAN
EMERSON, MAUREE
ESTES, OPAL
FAIRBAIRN, RUTH
FERRILL, FLORA
GRIFFIN, HELEN
HAWKINS, VIVIAN
HOBBS, HELEN
JACKSON, MRS. ZELIA
KESLER, CAROLINE
KING, HARRIET B.

LUSTER, JULIA
MASHBURN, LILY
MELTON, MATTIE
OWENS, ADDIE M.
PHILLIPS, MARCELLE
PRICE, NELLIE
RAMEY, GEORGIA
RATLIFF, WILLENA
ROBINSON, MRS. B. H. J.
ROSS, CLYTICE
SANDERSON, KITTIE
SMITH, DORA
SPRADLIN, MRS. B. A.
STONE, TOMMIE
TATUM, MRS. BIRD
THACKSTON, MABEL
TRUSSELL, MRS. SARAH
TURNER, MRS. MINNIE C.
WATSON, MRS. MYRTLE
WILSON, TANNIE

CLUB WORK

W. J. JERNIGAN, *State Boys' and Girls' Club Agent*

SPECIALISTS

R. L. ANDERSON, *Predatory Animal Hunter*

MISS GERTRUDE CONANT, *Foods and Nutrition*

F. D. CROOKS, *Poultry*

H. W. WOODLEY, *Dairying*

C. WOOLSEY, *Horticulture*

MISS RUBY MENDENHALL, *Food Preservation*

D. T. BURLESON, *Agronomy*

M. W. MULDROW, *Livestock*

MISS EM S. PATTY, *Textiles and Clothing*

A. D. MCNAIR, *Farm Management* (U. S. Dept. of Agri. co-operating)

E. A. HODSON, *Marketing*

NEGRO WORKERS

H. C. RAY, *District Agent*MARY L. RAY, *District Agent*

R. T. BUTLER
LUGENIA CHRISTMAS
ANNA HALL
C. C. HARAWAY
WM. HARRIS
ANNIE LATIMER
A. M. MASON
E. T. MATTISON
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ANNIE SMITH
T. D. SPEARS
ALICE WINSTON
JENNIE LOU WOODARD

AGRICULTURAL EXTENSION SERVICE

PURPOSE.—The Agricultural Extension Service forms the third main division of the College of Agriculture—resident teaching, research work, and extension work. The object of extension work is to disseminate among the people the most practical information obtainable on all subjects relating to agriculture and home economics, and to encourage the adoption by farmers and their families of the practices recommended. One of its chief functions is to take the results of the State Experiment Station and its branches to the people and thoroughly to disseminate the information thus obtained. Agricultural Extension work deals with the problems of practical and economic production, marketing, and the organization of agriculture as a business and as a life occupation.

SOURCES OF MAINTENANCE.—The Agricultural Extension Service is supported jointly by the College of Agriculture of the University of Arkansas and the United States Department of Agriculture under the provisions of the Smith-Lever Act passed by Congress in June, 1914. In addition to the federal funds appropriated to the College of Agriculture for conducting extension work, and the state funds appropriated as an offset to the federal appropriations, the Department of Agriculture, through the Office of Extension Work, has allotted to the Extension Service certain sums to be used in the furtherance of the work.

SCOPE OF WORK.—The Agricultural Extension Service endeavors to reach the maximum number of farms and homes of the state. This is done through county farm demonstration agents and county home demonstration agents. These county agents work through community clubs and other rural organizations. They hold extension schools and conduct demonstrations in dairying, poultry, live stock, field crops, horticulture, terracing and drainage, marketing, foods and nutrition, food preservation, and clothing and textiles. The basis of all of this work is the demonstration conducted on the farm or in the

home under the personal directions of the county extension agent. The work of the agents is strengthened by the supervision of state and district agents and by the help of subject matter specialists.

FARM DEMONSTRATION WORK.—The farm demonstration work is conducted by county agents who are trained in the science of agriculture and who have had practical experience in conducting farm operations. The demonstrations in soil improvements, crops, horticulture, livestock, marketing and other subjects are adapted to the needs of the county and are part of a long time plan of agricultural development within the county. Timely information regarding production and marketing is disseminated through newspaper articles, circular letters and bulletins. Other effective aids to the improvement of farm conditions are applied as conditions make them practicable and profitable.

HOME DEMONSTRATION WORK.—Sustained programs in home demonstration are developed under the guidance of the county home demonstration agent. In conference with the agent, groups of women and girls in the communities decide on the demonstrations or projects they wish to undertake during the year. These, when compiled, go to make the county program. Those activities most often presenting problems to the housewife are (1) gardening and home orchards, (2) poultry, (3) home dairy, (4) nutrition and child care, (5) food preservation, (6) textiles and clothing, and (7) household management and equipment.

Strong community and county organizations and materially in the projection of these programs in that (1) they enable the agent to instruct groups largely instead of individuals, (2) they develop leadership, and (3) they give a degree of permanency to the work in a county.

BOYS' AND GIRLS' CLUB WORK.—Specialists in club work are provided for the proper supervision of the boys' and girls' club work and to assist the county agents in organizing and properly developing this work. The service is designed to teach boys and girls the simplicity of ways of improving the farm and home, to open up to them a brighter view of the future, and to inspire them with the desire to remain on the farm and develop it to its fullest possibilities. This may be classed as the initial step in the teaching of agriculture and home economics in that it reaches boys and girls between the ages of ten and eighteen, before they have had the opportunity to secure such training in the schools and colleges.

SUBJECT MATTER SPECIALISTS.—The work of the county farm and home demonstration agents is strengthened by the assistance given them by subject matter specialists. These specialists are trained in some one particular line, such as marketing, horticulture, livestock, dairying, poultry, foods and nutrition, food preservation, or textiles and clothing. The specialists aid the county extension agents in developing special lines of work and

in conducting the more difficult demonstrations. Assistance of the specialists may also be had in working out some particular phases of agricultural work in counties where there are no county extension agents.

EXTENSION SCHOOLS.—In season it is intended that the Extension Service through farmers' meetings shall reach every county in the state. Special campaigns along lines of greatest importance are organized and promoted in season. This work is pushed at times when farm work is the lightest.

MARKETING SERVICE.—Specialists in marketing are provided to assist farmers in securing markets for their products, and to give instruction in successful methods of handling the farmers' marketing problem. This is an educational service designed to bring the producer and the buyer into touch with each other, but the Division of Extension takes no further part in consummating sales. The marketing service goes further in that it encourages the organization of groups of farmers for the production of various products in carload lots, and gives instruction in the proper grading and packing of fruits and other farm products. The marketing of any farm product will be included in the activities of this sphere of extension work.

AGRONOMY.—Soil maintenance and improvement are essential to a permanent system of agriculture. Demonstrations in the use of legume crops, growing cover crops, the proper use of commercial fertilizers, and the use of lime are conducted.

Economic production of the staple crops is important to profit making. Demonstrations in the use of good seed, the selection of seed, the use of adaptable varieties, the cultivation of crops are conducted each year. As an average for ten years demonstrations in corn production carried on by farmers under the supervision of county agents have yielded 33.4 bushels of corn to the acre; demonstrations by club boys have yielded 42.5 bushels to the acre, while the average for all farms of the state during this period has been 19.5 bushels to the acre. A specialist is employed to give assistance to county agents and farmers in connection with problems arising in soil improvement and field crop production work.

LIVESTOCK.—The introduction of purebred animals and the grading up of farm herds and flocks are means being used to increase the average value of the farm animals of the state, which is now very low. Demonstrations in feeding and management, culling of herds and flocks, and in co-operative marketing of farm livestock are conducted. Boys' pig, calf, and sheep club work is an important phase of the general livestock work.

HORTICULTURE.—Large areas of the state are devoted to fruit and truck crops. Assistance is given this industry through demonstrations in spraying, pruning, cultivating and fertilizing these crops. The dissemination of information leading to the control of insects and diseases affecting these crops, the production of

a higher quality product and the proper grading and packing for markets is done through farmers' meetings, method demonstrations, newspaper articles, and special circulars and bulletins.

Demonstrations of the farm home garden, the canning crop garden, the home orchard and simple landscaping of yard and lawn, squares and parkways, constitute the work in horticulture undertaken by the county home demonstration agent. In all of this work she is given able assistance by the specialist.

DAIRYING.—Assistance in securing better animals, in establishing bull clubs, in cow testing and economical milk production work is given to farmers and farmers' organizations interested in this industry, which is rapidly developing in the state.

A scarcity of milk in the diet of town and country families is one of our most serious nutrition problems. (1) More cows and better cows, (2) improved feeding and housing conditions, (3) care of milk, (4) improved practices in the making of cheese and butter for home use, cover the demonstrations in home dairy work. The specialist renders help with this work and with "more milk" campaigns inaugurated in town or counties.

POULTRY.—A flock of poultry is common to almost all farms of the state. The culling of flocks, the placing of standard-bred eggs and fowls on farms, demonstrations in feeding farm flocks, keeping records of flocks and certifying standardbred flocks are carried on. Boys' and girls' poultry clubs are an important part of this work.

The care of the poultry on the farm falls to the lot of the women and girls as a rule. They turn to the home demonstration agent naturally for help in meeting the problems incident to this work. Demonstrations in (1) better housing, (2) better feeding, (3) culling for egg production, (4) securing standardbred chickens and (5) co-operative marketing of surplus products are remedial measures undertaken with success. The poultry specialist gives much of his time to assisting the home demonstration agents with projecting this work over the state. With the girls and boys a program of demonstration covering four years is followed.

FOODS AND NUTRITION.—(Carried on in connection with recognized health agencies).—The weighing, measuring and medical examination of children bring home to our people the relation between food and health. Demonstrations in proper food selection go a long way toward making popular the farm garden work (with greens all the year), the food preservation work, and the home dairy program. With the girls a four-year program in cookery has been worked out. A nutrition specialist gives her full time to this phase of the home demonstration program.

FOOD PRESERVATION.—The object of this work is three-fold: (1) It prevents the waste of surplus garden and orchard products during the months of plenty, (2) it insures a year's supply of

these same products at small cost, (3) it provides the necessary variety in the diet, and (4) it offers a source of income for the farm woman and girl.

An increasing number of our people are planting with a view to canning for profit.

A long-time companion program to the garden work is carried on in canning by club girls who select this phase of the work. A full-time specialist assists the county home demonstration agent with this program.

TEXTILES AND CLOTHING.—The large number of requests for help with (1) testing and selecting materials, (2) use and alteration of patterns, (3) garment construction, (4) good taste in dress, and (5) hat making led to the building of a program around these problems. Here again the girls and women have a long-time program of demonstrations. A full-time specialist assists the agents with this work.

FARM MANAGEMENT.—Preliminary surveys of farms in some sections of the state have shown that the profits are far from what they should be. Farm management studies naturally should be one of the foremost in agricultural teaching. Proper investigation of farm management conditions and the teaching of the best methods of farm management are of utmost importance. This work is provided for through the employment of a specialist in farm management.

DRAINAGE AND TERRACING.—Assistance is furnished farmers in dealing with their problems of drainage by open ditches, tile, drainage, and similar methods, as well as by the direction, maintenance, and handling of terraces to prevent washing of hillsides.

AGRICULTURAL NEWS SERVICE.—Agricultural facts must be placed before the people. The co-operation of the press is utilized by supplying to the papers of the state weekly paragraphs on better farming. Special articles dealing with seasonal topics are prepared for the county papers. Special articles for the daily papers of the state are prepared in order that facts may be brought before a large number of people. Further than this, the Extension Service issues publications from time to time which are available to the people of the state upon application.

DEPARTMENT OF LAW

The Department of Law was established in the fall of 1924. It follows the standards of legal education prescribed in 1921 by the American Bar Association.

The object of the Department is to afford a thorough preparation for the practice of law. This preparation is based on an analytical study of the fundamental principles of English and American law. These principles are studied with reference to their historical development and also their practical application. Recognition is given to the fact that most of the students in the department are preparing for the practice of the profession in Arkansas.

In the session beginning in September, 1925, only the first and second years of the law course will be given. In 1926-27 the third year of the law course will be added.

METHODS OF INSTRUCTION

The method of instruction employed in the Department of Law is almost exclusively the study and discussion of cases. This method is designed to impart an effective working knowledge of fundamental legal principles and to develop the power of practical legal reasoning. It is the system of instruction which has been followed for many years by the standard American law schools.

LAW CLUBS

Practical exercises in brief making, in the use of law books, and in oral argument are given through the medium of law clubs. These clubs are organized by the law faculty, and the meetings are regularly conducted by some member of the faculty.

The University courses in public speaking and debating are open without extra charge to students in the Department of Law.

LAW LIBRARY

The law library contains a sufficient collection of law reports, statutes, digests, encyclopedias, text books, and law reviews to meet the demands of the law students. The general library of the University also contains many volumes of value and interest to the students in the Department of Law.

TUITION

The tuition fee for law students is \$20 each term, or \$60 a year. For students taking only part-time work in law, the fee for each course is \$2 a credit hour, not exceeding \$20 a term.

For a detailed statement of other fees and expenses see page 36.

ADMISSION

Candidates for the law degree entering for the school year 1925-26 and thereafter must have successfully completed two years of work either in the University of Arkansas or in some other college or university of recognized standing, in addition to the 15 units of high school work required for admission to the University.

Prospective law students are invited to confer with members of the law faculty as to the selection of their pre-legal courses.

SPECIAL STUDENTS

Persons 25 years of age, or over, who have less than the academic credit required for the candidates for the law degree, and who do not wish to become candidates for the law degree, may make written application to the University Examiner for admission as special students. The number of such students is carefully restricted.

ADMISSION OF STUDENTS OF OTHER DEPARTMENTS

Students in other departments of the University, who are properly qualified and who wish to devote a part of their time to the study of law or to specialize in certain fields of law, are permitted to register for one or more law courses on payment of the necessary law tuition fee for the courses taken.

ADMISSION TO ADVANCED STANDING

No credit for advanced standing is given except from resident law schools of recognized standing. For a detailed statement concerning the transfer of credits see page 34.

COURSE OF STUDY

The course of study leading to the degree of Bachelor of Laws (I.L.B.) requires resident study in the department of law for three academic years. The course of study is designed to occupy the full time of the student.

REQUIREMENTS FOR DEGREE

BACHELOR OF LAWS

The candidate for the law degree must meet the entrance, residence, and registration requirements, and must complete satisfactorily examinations in not less than 120 term hours in required courses in the Department of Law, of which not more than 25 per cent may be of D grade.

COMBINED ACADEMIC AND LAW COURSE

A student who receives credit for the work of the first three years in the College of Arts and Sciences of the University may complete his major requirement in that college by electing the entire first year law courses consisting of 42 credit hours. At the end of the senior year, upon passing the prescribed first year course in the department of law, the academic degree of Bachelor of Arts will be granted. On completion of the other two years of law work, the law degree will be granted. Thus a student may receive the degree of Bachelor of Arts and Bachelor of Laws in six, instead of seven, years by majoring in law while registered in the College of Arts and Sciences.

If a student has completed three years of academic work in some other college or university whose rules permit this procedure he may, on the completion of the first year of work in law in the University of Arkansas, receive the Bachelor of Arts degree from the institution first attended.

The following courses are required of candidates for the law degree:

First Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Civil Procedure.....	2	2	2
Personal Property.....	3	..	..
Torts	3	3	..
Contracts	5	5	..
Real Property.....	..	5	..
Agency .....	..	..	6
Criminal Law and Procedure....	..	..	6
	13	15	14

The courses in the second and third years will include equity, sales, suretyship, mortgages, partnership, real property, future interests, negotiable instruments, constitutional law, private corporations, wills and administration, trusts, carriers, conflicts of laws, evidence, trial practice, and drafting of legal instruments.

STATEMENT OF COURSES

First Year

521, 522, 523. CIVIL PROCEDURE.—Venue, process, appearance, forms of action, parties, pleading, trial, motions, judgments, proceedings after judgments. PEPPER.

531. PERSONAL PROPERTY.—Possession, acquiring title to chattels, gifts, bailment, liens, pledges, conversion. Fall. PEPPER.

532, 533. TORTS.—Assault and battery, false imprisonment, negligence as a ground of liability, the standard of care, liability of occupiers of premises, contributory negligence, dangerous use of land, violation of statutory duty, deceit, malicious prosecution, defamation, interference with privacy, interference with advantageous relations. Fall and winter. PEPPER.

551, 552. **CONTRACTS.**—Offer and acceptance, consideration, contracts under seal, third party beneficiaries, assignment, conditions in contracts, impossibility of performance, discharge of contracts, joint contracts. Fall and winter. **WATERMAN.**

553. **REAL PROPERTY.**—Tenure, estates, joint tenants, tenants in common, reversions, remainders, seisin and disseisin, common law methods of transferring estates, the Statute of Uses. Winter. **PEPPER.**

561. **AGENCY.**—Nature of relation, appointment, liabilities of principal, liabilities of agent, undisclosed principal, obligations between principal and agent, delegation of agency, termination of agency, ratification. Spring. **WATERMAN.**

562. **CRIMINAL LAW AND PROCEDURE.**—Criminal intent, criminal act, combinations of persons in crime, crimes against the person, larceny and kindred offenses. Jurisdiction, venue, arrest, indictment, trial. Spring. **PEPPER.**

SUMMER TERM

The fourteenth summer term of the University will open June 22, 1925, and close August 1, 1925.

The attendance on the University Summer School now almost touches one thousand—a larger number than is found in the average summer school in the United States. The report of the United States Commissioner of Education shows that the cost of attending the session is only slightly more than two-thirds of the cost of attending such a summer session in the average schools of like grade.

Courses in preparatory and college subjects will be offered by a faculty composed almost wholly either of heads of departments in the various faculties of the University, or of experts of recognized ability from other states. A model school will be conducted for the demonstration of the best methods of teaching in the primary and grammar grades. The University Training High School will be in session and will be in the hands of some of the best superintendents of schools in Arkansas. One unit of entrance credit may be secured by attending the summer school. A limited amount of practice teaching may be done. Experts in Rural School Methods and Management, Plays and Games, Public School Music, Industrial Work for the Grades, and other such subjects have been secured so that the University will offer a number of complete courses especially designed to meet the needs of rural teachers.

Courses completed in the summer term will be credited toward a degree, providing that entrance requirements have been met. Ten term hours is the maximum that may be earned at any one session. It should be noted that by attending several summer terms a student's college course may be shortened to three or three and a half years.

Courses for freshmen in all of the four colleges of the University (Arts and Sciences, Agriculture, Education, or Engineering), will be offered, and graduates of high schools are particularly urged to begin their college work in June instead of September. Courses will be offered this summer in all three phases of Smith-Hughes work in vocational education, namely in agriculture, home economics, and in industrial arts.

All the facilities of the College of Agriculture and of the state experiment station are open to the Smith-Hughes men in agricultural education, and all the men teaching these courses in the high schools of the state are required by the federal government to attend.

Each year sees an increasing number of courses offered for graduate study. Several students have completed the required work for their Master's degree by summer work.

More detailed information in regard to the courses offered, matriculation, and registration, may be had from the Summer Term Bulletin, which will be sent upon request.

SCHOOL OF MEDICINE

ADMINISTRATIVE OFFICERS

JOHN CLINTON FUTRALL, M. A., LL. D. *President of the University.*

MORGAN SMITH, M. D. *Dean of the School of Medicine.*

LILLIE B. HILL. *Registrar of the School of Medicine.*

HISTORY

The School of Medicine was organized at Little Rock in 1879. In 1911 it was consolidated with the College of Physicians and Surgeons, and by an Act of the General Assembly became the School of Medicine of the University of Arkansas.

ADMISSION

Admission requires a four-year high school education, and, in addition, two years of college work as set forth below.

HIGH SCHOOL REQUIREMENTS

Four years' work in an accredited high school or its full equivalent, comprising not less than 15 Carnegie units* in acceptable subjects, including prescribed work as follows:

English	3 units
Algebra	1 unit
Plane Geometry	1 unit
Latin, Greek, French, German or other foreign language	2 units
(Both units in the same language)	
History	1 unit
Electives	7 units

Total.....15 units

Deficiencies in any of the above described high school work may be made up by extra college work in the same subjects.

COLLEGIATE REQUIREMENTS

Two years' work in a recognized college or university, comprising not less than 60 semester hours, including prescribed subjects, as follows:

Chemistry (See Note A).....	12 semester hours†
Physics (See Note B).....	8 semester hours
English (See Note D).....	6 semester hours
Biology (See Note C).....	8 semester hours
Electives (See Notes E and F).....	26 semester hours

Total.....60 semester hours

*A unit in a subject is the credit value of work in that subject for five recitation periods per week for 36 weeks. Each recitation period must be at least 40 minutes in length.

†A semester hour is the work represented by one class period per week for half of the college year (at least 32 weeks). Each laboratory period to be so evaluated must extend over at least two hours.

NOTE A. CHEMISTRY.—Of the twelve hours at least eight semester hours must be in general inorganic chemistry, and at least four semester hours must be laboratory work. The remainder must include organic chemistry.

NOTE B. PHYSICS.—At least two of these eight semester hours must consist of laboratory work. It is recommended that this course be preceded by a term in trigonometry.

NOTE C. BIOLOGY.—At least four of the eight semester hours must be laboratory work. This requirement may be satisfied by eight semester hours in either general biology or zoology, or by courses of four semester hours each in zoology and botany; but not by work in botany alone.

NOTE D. ENGLISH.—The usual introductory college course of six semester hours in English composition and literature or its equivalent is required.

NOTE E. FRENCH, SPANISH, ITALIAN OR GERMAN.—French and German bear the closest relations to modern medical literature. Students are therefore urged to secure a reading knowledge of one of these.

NOTE F. ELECTIVES.—As desirable electives, the following subjects are suggested: Additional English; chemistry; zoology; psychology; an additional modern language; economics; college algebra, and trigonometry; sociology; history; political science; logic; Latin; Greek; drawing.

CONDITIONS NOT PERMITTED

No substitutes are allowed for the above prescribed subjects.

No entrance conditions are permitted.

Candidates for admission who have completed the above requirements, with the exception of a few hours of college subjects, should plan to make up their deficiency by attendance at a summer session.

COURSE OF STUDY

The School of Medicine offers a four-year course leading to the degree of *Doctor of Medicine* (M. D.).

The candidate must meet the entrance, residence, and registration requirements; must be 21 years of age; and must present satisfactory evidence of good moral character. The candidate must have attended and satisfactorily completed four courses of lectures, no two of which shall have been attended in the same calendar year. Three years of the required work may have been done in some other medical college of recognized standing whose requirements are equivalent to those of this college. The senior year must be done in residence at this college.

The School of Medicine will grant the degree of *Bachelor of Science in Medicine* (B. S.) to students who have complied with the following requirements:

1. The student must have completed two full years of work leading to the bachelor's degree in the University of Arkansas or some other standard college or university having entrance requirements of not less than 15 standard high school units and requiring not less than 16 hours of recitations and lectures per week in the college course.

2. The student must have included in his two years of preliminary college work all subjects required for entrance to the first year of the School of Medicine of the University of Arkansas.

3. The student must have completed all of the work in the first three years of the medical course in the School of Medicine of the University of Arkansas. At least three-fourths of each year's work must have been of grade C or better.

4. This degree will not be conferred except upon students who are in actual attendance in the School of Medicine of the University of Arkansas.

5. The Trustees reserve the right to decline to confer the degree for any reasonable cause.

FEES AND EXPENSES

Matriculation and registration for students of the state, each year \$10.00. Tuition for residents of the state, each semester, \$20.00. Matriculation and registration for non-residents, each year, \$25.00. Tuition for non-residents, per semester, \$37.50. War Veterans: Bona fide residents of the state who are honorably discharged veterans of the world war, and who were citizens of Arkansas at the outbreak of the world war, and who otherwise are qualified, are exempted from payment of matriculation and tuition fees, provided that this shall not apply to veterans trained under contract with the United States Government. In addition to the above tuition and matriculation fees, deposits are required at the beginning of each session to cover breakage and supplies. There is also a deposit for students' activities.

ADVANCED STANDING

Application for advanced standing must be filed with the Registrar before July 15. A complete and verified transcript of pre-medical and medical college credits must accompany the application.

CLASSES LIMITED

The teaching facilities of the School of Medicine are limited to 200 students, and as resident students have priority of admission, those contemplating entering in September are urged to make application before July 15.

BUILDINGS AND EQUIPMENT

The main building, erected in 1890, is a three-story brick structure containing a lecture hall, amphitheatre, museum, dissecting room, and laboratories. A second building, occupied chiefly by laboratories, has been outgrown, and the old state capitol is used for laboratories of chemistry, embryology, histology, physiology, pathology, bacteriology, clinical microscopy, surgical pathology and pharmacology. These laboratories are well equipped with new apparatus and supplies. The space is ample and the rooms are well lighted.

HOSPITAL AND CLINICAL FACILITIES

Coincident with the restoration of the course in clinical instruction, the Trustees perfected a close affiliation between the School of Medicine and the four leading general hospitals of the city, in each of which clinical teaching is done by members of the faculty. By this arrangement more than 500 beds will become available for clinical teaching.

The *Little Rock General Hospital* has been completed at a cost of \$400,000. Its staff is provided by the Medical School and its 150 beds are available to the Medical School for teaching purposes.

The *Baptist General Hospital* is rapidly nearing completion and its staff will be composed largely of members of the faculty.

St. Vincent's Infirmary, one of the oldest hospitals in the state, and the largest at present, is affiliated with the School and will continue to furnish material for clinical instruction. It has a bed capacity of 250.

St. Luke's Hospital, with a bed capacity of 75, is one of the affiliated hospitals and its entire staff is made up of members of the faculty of this School.

The above four hospitals have a representative on the administrative board of the School, through which the School and the hospitals are kept in harmonious correlation.

Isaac Folsom Clinic. This clinic was named in honor of the late Dr. Isaac Folsom, in consideration of his gift of an endowment of \$20,000. This clinic is under the direct and exclusive control of the faculty, and all its material is available for teaching purposes.

State Institutions. All the eleemosynary institutions of the state are situated in Little Rock. These include the School for the Blind, the School for Deaf Mutes, the State hospital for Nervous Diseases, the Penitentiary, the Reform School, County and City Hospitals, all of which contribute to the available clinical material.

HOSPITAL APPOINTMENTS

The following hospital appointments are made annually: Logan H. Roots Memorial Hospital, two resident physicians; Uni-

versity Hospital, two resident physicians; Pulaski County Hospital, four internes; State Hospital for Nervous Diseases, ten internes; St. Vincent's Infirmary, one resident physician and four internes. Appointments are made by competitive examinations open to graduates of the School of Medicine.

ANNOUNCEMENT

The next session will open September 14, 1925, and end June 7, 1926.

For further information in regard to the School of Medicine, address the Dean of the School of Medicine, University of Arkansas, Little Rock, Arkansas.

AGRICULTURAL, MECHANICAL AND NORMAL SCHOOL

HISTORY

The Agricultural, Mechanical, and Normal School is situated at Pine Bluff, Arkansas. It was established pursuant to an Act of the General Assembly of Arkansas, April 27, 1873, and has been in operation since 1875.

Its purpose is to provide industrial education and to train teachers for efficient service in the colored public schools of the state.

BUILDINGS AND EQUIPMENT

The school property consists of 20 acres of land in the western suburbs of Pine Bluff.

The buildings include a two-story brick school building, containing classrooms, library, and assembly hall; well equipped mechanical shops; a dormitory for women; a dormitory for men; a primary training school; and a two-story home economics building.

ADMISSION

Candidates for admission must be at least 15 years of age, and must pass a satisfactory examination in arithmetic, English grammar, geography, and United States History, such as is covered in the eighth grade. Those coming from other schools must furnish evidence of satisfactory deportment and class standing.

COURSES OF STUDY

Preparatory Department. In the preparatory department the foundation academic subjects are studied. The work corresponds to that of the eighth grade in the public schools.

Normal Department.—The purpose of the normal department is to prepare students for teaching. Admission is based upon the completion of the four-year high school course. The normal course requires two years of work beyond the high school and is a Junior College. Teacher Training in Smith-Hughes Agriculture and Home Economics is also done in the Junior College. A modern practice training school is maintained for those students who are taking teacher training. Students who pass the prescribed course of study satisfactorily will be awarded a teacher's certificate.

Industrial Department.—The students in the preparatory department take the regular manual training courses. On entering the high school, the boys have the choice of the following trades: Carpentry, Tailoring, Bricklaying and Plastering, Auto Mechanics, Power Plant Engineering, Plumbing, Machine Shop Work, and Electrical Wiring. All students are required to pursue

industrial courses. The girls spend one half day in Household Economics, beginning with the first year of high school. They take Sewing, Art, Cooking, Millinery, Cutting and Fitting. The industrial work extends through four years, and upon completion of the work a certificate is given.

Commercial Course.—A two-year commercial course has been added to meet the growing demands of business. Students must have successfully completed the work of the Sophomore year in high school before pursuing this work.

Agricultural Department.—Three courses of study are offered in this department: The Vocational course, the Teacher Training course, and Public School Agriculture. Model farm buildings are in the process of erection and the school farm of 160 acres gives ample space for the proper instruction of students. The Teacher Training work prepares teachers of Agriculture for the grammar and high schools of the state. The course consists of professional work, a study of soils and crops, animal husbandry, farm management, etc.

FEES AND EXPENSES

Matriculation Fee (paid annually by all students)	\$10.00
Dormitory Fee (including board, fuel, light, and laundry, paid by all women students living in the dormitories at the beginning of each month)	16.00
Student Activity Fee (paid by all students at the beginning of the year)	3.00

ANNOUNCEMENT

For further information in regard to the Agricultural, Mechanical, and Normal School, address the Superintendent, Agricultural, Mechanical, and Normal School, Pine Bluff, Arkansas.

UNIVERSITY OF ARKANSAS DEGREES, DIPLOMAS AND CERTIFICATES, 1924

DEGREES

MASTER OF ARTS

A. B. Armstrong
Carl Gay Davis

R. Edwin O'Kelley
Arthur Daniel Oxley

MASTER OF SCIENCE

Sam Byrd
Ivan H. Grove
Keith Leaming Holloway

John Eber Manning
Edward H. Nelson
Otis Carroll Trimble

BACHELOR OF ARTS

Emma Martha Buerkle
Marceline Campbell
Jessie Ray Cobb
Otto Clifford Combs
John Leonard Cotton
Grace Ellen Cotton
Alfred Jackson Crabaugh
Walter Elmer Daniels
Margaret Earle
Sarah Zanie Edwards
Dorcas Catherine Ferguson
Daniel Greene Garrison
Julius Cummings Gibson
Robert Alva Greene
Frank Greenhaw
Hazel Haigwood
Scott Downs Hamilton
Nell Lucile Hamilton
Arthur Leonidas Harding

Lloyd G. Henbest
Mary Dengler Hudgins
Horace Croom Jones
Felix Albert Kinbrough
Farris Newton Latimer
James I. Mailer, Jr.
Elvira Mast
Alice Elizabeth McNair
Grace Elizabeth Mellor
Amanda Harris Miller
Minor Wallace Milwee
Mary Elise Mulkey
Charles Edwin Palmer
Gladys Ellen Reeser
Vincent Marsh Ripley
Warren Benjamin Wade
Grace Hazeltine Watson
Grover A. Zinn

BACHELOR OF SCIENCE

Walter Sherman Dyer

BACHELOR OF SCIENCE IN AGRICULTURE

Edward Carl Atkins
Carroll Dodson Christian
Price A. Dickson
Waldo Frazier
Keith Leaming Holloway
Frank Horsfall, Jr.

Carrick L. McColloch
Sam Edgar Poe
George S. Schilling
John Ward
Duke Martin Root
George Whitaker Ware

BACHELOR OF SCIENCE IN HOME ECONOMICS

Mary Alzira Atkinson
Margaret Quay Batjer
Lois Katherine Berry
Mary Virginia Blanshard
Alice Virginia Cook
Blanche Hanks Elliott
Mary Louise Gillespie

Olive May Kerr
Ila McAllister
Margaret Jane Oakley
Nancy Ethel Owen
Emily Russell
Edith Uhl

BACHELOR OF SCIENCE IN EDUCATION

Louise B. Alder
Margaret Ellen Askew
Mattie L. Barron
Macie Boyd
Sam Byrd
Walter Cecil Collum
Grayce Williams Croneis
Mary Dixon
Ruth Dyer
Louise Naomi Hardy
Marshall Hickmon

Clara Bernice Kennan
Marshall Manvil Little
Guy Norton Magness
Arthur Ray McKenzie
Albert Mott
Mary Virginia Norris
Garland Augustus Stubblefield
Carma Athleen Thomas
Mary Elizabeth Westphaling
Edwin Dean White

BACHELOR OF CHEMICAL ENGINEERING

Robert Cecil Cross

Albert H. Garrison

BACHELOR OF ELECTRICAL ENGINEERING

Dean Douglass Ault
Elmer Johnson Anderson
Joel W. Blake
Hollace Lawton Cox
Joseph Andrew Cunningham

Rupert Price Johnson
Ruric Coin Mason
Borden Matthew McGee
George Samuel Whitlow
Virgil Williams

BACHELOR OF MECHANICAL ENGINEERING

Robert Norton Hall

BACHELOR OF CIVIL ENGINEERING

Fred E. Coker
Loftus J. Collamore
Walter Edwin Hicks
Roy Kuykendall
Charlie Marvin Matthews

Harry Bourne McDowell
Ernest L. Wales
Vernon Williams
Orville Charles Word, Jr.

CERTIFICATES

*SECONDARY TEACHER'S CERTIFICATE IN
HOME ECONOMICS*

Mary Alzira Atkinson
Margaret Quay Batjer
Lois Katherine Berry
Mary Virginia Blanshard
Alice Virginia Cook
Blanche Hanks Elliott
Mary Louise Gillespie

Olive May Kerr
Ila McAllister
Margaret Jane Oakley
Nancy Ethel Owen
Emily Russell
Edith Uhl

SECONDARY TEACHER'S CERTIFICATE

Sarah Zanie Edward
Emily Futrall
Mary Dengler Hudgins
John Larkin Holt

Grace Hazeltine Watson
Evelyn Louise Wilson
Carma Athleen Thomas

ELEMENTARY TEACHER'S COURSE

Elizabeth M. Barnett
Mildred Blackburn
Lois Erline Blackshare
Cula Ruth Brickey
Pauline H. Crabtree
Lucile Caswell Duke
Imogene Dupuy
Sybil Josephine Fuller
Margaret Greathouse
Nita Greig
Jenilee Harrell
Dorothy Harris
Margaret Heerwagen
Mabel Henry
Midget Henrietta Higgins
Corrinne X. Holmes
Elwin Bartley Howard
Virginia Marie Howard
Florence Wealthy Johnson
Helen June Kelley
Eugenia Kennard
Marie Koch
Margaret McDonald
Ora McGehee

Charlotte Miles
Gertrude Ellis Miles
Alice Forbes Milliken
Thelma McCatherine
Nannie May Moore
Nannie Maude Moore
Mary Helene Morrison
Roma L. Morrison
Margaret Amelia Owens
Carrie Pace
Joyce Urada Parsley
Mary Katherine Pettigrew
Frances Potter
Anna Agnes Ruble
Helen Christine Ruppel
Nettie Janette Russell
Rose Russell
Theodore Genevieve Shafer
Frances Louise Tibbetts
Magdalene Thomas
Ethyle Ruth Tunstill
Beulah Irene Whitcomb
Ruby Wolfenbarger

DIPLOMA IN PIANOFORTE

Hazel Haigwood

*TWO-YEAR SHORT COURSE IN ELECTRICAL
ENGINEERING*

Irl Alston
James Melroy Evans
Walter I. Gaston
Charles Tolbert Goldman
William Benton McAdams
Thomas L. Moore

William Edward Neal
Paul A. Paine
William C. Pixley
Edward Spann
Carl O. Van Note

*TWO-YEAR SHORT COURSE IN MECHANICAL
ENGINEERING*

Roy Adams

Rector Allen Robbins

*TWO-YEAR SHORT COURSE IN HIGHWAY
ENGINEERING*

George Henry Lewis
Warren A. Ramsey
Theodore Roberts

George Edwin Rowin
Emory Charles Smith
Richard D. Wylie

HONORS

GRADUATION HONORS

Ruric Coin Mason
 Marceline Campbell
 George S. Schilling

Rupert Price Johnson
 Walter Sherman Dyer
 Arthur Leonidas Harding

CLASS HONORS

Sarah Zanie Edwards
 Marceline Campbell
 Ruric Coin Mason
 Mary Elise Mulkey
 Rupert Price Johnson

Walter Sherman Dyer
 George S. Schilling
 Gladys Ellen Reeser
 Joe Andrew Cunningham
 Arthur Leonidas Harding

DEPARTMENTAL HONORS

Romance Languages

Marceline Campbell (First)

Chemistry

Walter Sherman Dyer (First)

Education

Sam Byrd (First)

Mathematics

Ruric Coin Mason (First)

Electrical Engineering

Joe Andrew Cunningham (First)
 Ruric Coin Mason (Second)

Heat Power Engineering

Ruric Coin Mason (First)

SCHOLARSHIPS

DEPARTMENTAL SCHOLARS (Graduate)

1924-25

Chemistry	George Bradley
English	Ora Blackmun
Psychology	Mary Hamilton

UNIVERSITY SCHOLARS

1924-25

Ardeth Annen	Hot Springs
Henry Ayers	Dierks
Hazel K. Betzner	Hazen
Louis T. Byars	Alma
Rreece L. Crow	Crossett
May Clemmer	Gentry
Henry Etta Campbell	Foreman
Martin Cantrell	Marked Tree
Herbert Claybaugh	Van Buren
John Paul Cheek	Akins
Jeff Donathan	Booneville
Mabel Goree	Springdale
Leffel Gentry	Hope
Winnie Hopkins	Marianna
Fred Hawkins	Waldron
Guy Huffaker	Morrilton

Houston J. Holloman.....	DeWitt
Noble J. McBride.....	Marshall
Minnie McGehee.....	Lakeside
Charles Raymond Mitchell.....	Harrisburg
Cecil Shuford.....	Fayetteville
Raymond Edward Scoggins.....	Fouke
Eugene Stevenson.....	Mena
Bessie Shoffner.....	Newport
Rosemary Tuohy.....	Mount St. Mary's
Eva Mae Thomas.....	Fayetteville
Lyle Thomas Alexander.....	Prairie Grove

LIST OF STUDENTS

GRADUATE STUDENTS

Name and Degree	Home Address
Barr, H. T., B. S. in A. E., University of Missouri.....	Fayetteville
Barton, Loy E., B. E. E., University of Arkansas.....	Fayetteville
Blackmun, Ora. B. A., University of Arkansas.....	Fayetteville
Blair, Leora, B. A., University of Arkansas.....	Van Buren
Bleecker, Wm. L., D. V. M., Ohio State University.....	Fayetteville
Bradley, George, B. S., Transylvania College.....	Elizabethtown, Ky.
Brandstetter, W. G., B. S., Highland Park College.....	Southwest City, Mo.
Carter, Deane G., B. S. in A. E., Iowa State College.....	Fayetteville
Christain, Carroll D., B. S. A., University of Arkansas.....	Springdale
Cotton, Ellen G., B. A., University of Arkansas.....	Fayetteville
Clutcher, Merle Ford, B. S. E., University of Arkansas.....	Louoke
Dalbright, James Wm., B. A., University of Arkansas.....	Fayetteville
East, J. E., B. A., University of Arkansas.....	Wh. Flat
Hamilton, Mary M., B. A., Maryville College.....	Hartford
Hamilton, Scott, B. A., University of Arkansas.....	Fayetteville
Hudgens, Helen, B. A., University of Arkansas.....	Fayetteville
Lagan, Robert R., B. Ch. E., University of Arkansas.....	Fayetteville
Lucell, Ulys R., B. A., University of Arkansas.....	Springdale
Mulrennin, Cecelia, B. A., University of Arkansas.....	Fayetteville
Owen, Thomas Cline, B. A., Hendrix College.....	Mena
Peden, Orchid, Diploma in Voice and Pianoforte, University of Arkansas.....	Fayetteville
Poe, McDonald, B. A., University of Arkansas.....	Waldron
Poe, Sam E., B. S. A., University of Arkansas.....	Fayetteville
Pryor, L. E., B. A., University of Chattanooga.....	Morrilton
Richardson, Irene, B. S. E., University of Arkansas.....	Fayetteville
Sachs, Mrs. Mabel, B. S., Illinois Wesleyan.....	Fayetteville
Schilling, Sam J., B. S., University of Wisconsin, D. V. M. Ohio State University.....	Fayetteville
Spencer, W. R., B. A., Indiana University, B. S. C. E., Rose Polytechnic Institute.....	Fayetteville
Stevenson, Ola, B. S. E., University of Arkansas.....	Okemah, Okla.
Westpheling, Mary F., B. S. E., University of Arkansas.....	Fayetteville

UNDERGRADUATE STUDENTS

EXPLANATION OF ABBREVIATIONS

A.....	College of Arts and Sciences
Ag.....	College of Agriculture
ATC.....	Agricultural Trade Course
Ed.....	College of Education
E.....	College of Engineering
F.....	Freshman
HE.....	Home Economics
J.....	Junior
So.....	Sophomore
Sr.....	Senior
Sp.....	Special
T.....	Trade Course

Name	Course	Home Address
Acker, Joe Henry	E-So	Hot Springs
Adams, Ray Marvin	A-F	Fayetteville
Adams, Rolla Perry	Ed-So	Selma, La.
Adams, Ward Hogan	A-Sr	Springdale
Akin, Bess	A-J	Fouke
Aldrich, William M.	E-So	Plainview
Alexander, Fannie E.	Ed-So	Fayetteville
Alexander, Frances G.	Ed-So	Fayetteville
Alexander, Homie Elish	A-F	Foreman
Alexander, Lyle Thomas	Ag-F	Prairie Grove
Alexander, Martha	A-F	Fayetteville
Alexander, Thornton	A-F	Fort Smith
Allen, Dorothy Lee	Ed-So	Fayetteville
Allen, Arthur A.	ATC	Bigelow
Allen, Esther E.	A-Sr	Van Buren
Allen, Frances Annabelle	Ed-F	Fayetteville
Allen, Gerald M.	E-T	Fayetteville
Allen, Lorraine	Ed-J	Little Rock
Allen, William E.	ATC	Mansfield
Alvarez, John Arthur	A-So	Fort Smith
Anders, Mary Margaret	A-So	Fayetteville
Anderson, Earl Raymond	E-F	North Little Rock
Anderson, Geneva Rose	Ag-J	Fayetteville
Anderson, Homer Lee	A-J	Louann
Anderson, James Hayden	E-So	Fort Smith
Anderson, Philip S.	Ag-F	Fort Smith
Anderson, Emily Katherine	A-So	Fort Smith
Andrew, John Whit.	Ed-So	Fort Smith
Andrews, Mary Olive	Ag-J	Cotton Plant
Annen, Ardeth Cox	A-F	Hot Springs
Appleby, John Tate	A-So	Fayetteville
Applegate, Alfred Russell	A-J	Rogers
Armstrong, Minnie Ruth	A-J	Fort Smith
Arnold, Lambert Fletcher	A-F	Fayetteville
Arnold, Logan Henley	Ag-F	Saint Joe
Ash, William Henry	A-F	Plainview
Askew, Bettie Bernard	A-So	Fayetteville
Atkins, Harold James	A-F	Van Buren
Atkins, Raima	A-So	Van Buren
Atway, Walter Talbert	Ed-So	Swifton
Ault, Charley	A-So	Hot Springs
Austin, Helen Myra	Ag-So	Fayetteville
Austin, Raymond Albert	E-J	Gravette
Austin, Robert	A-F	Aubrey
Avery, Arthur Benjamin	E-J	Lake Village
Ayers, James Henry	A-F	Dierks
Baber, Aubrey VanCleve	A-Sr	Siloam Springs
Baber, John Clement	Ag-J	Myron
Baber, Leelah Gretchen	A-J	Siloam Springs
Baber Lytle Clermont	Ag-Sr	Franklin
Baber, Quin Morton	Ag-Sr	Myron
Bacon, Carrington, C.	A-F	Walnut Ridge
Bagby, Herman Carlton	Ed-So	Pine Bluff
Bagby, John	Ag-J	Lake Village
Baggett, Jeff	A-So	Prairie Grove
Baggett, John Bennett	A-So	Prairie Grove
Baines, LaDelle Julianne	A-So	Fort Smith
Bains, Sam Martyn	A-So	Newport
Baker, Clyde B.	A-F	Magnolia
Baker, Jewell Beden	E-So	Hope
Baker, Samuel Ray	A-So	Paragould
Banister, Talmage Lucius	ATC	Mt. Hermon, La.
Banks, Conley Albert	Ed-So	Gravette
Banks, Zenda Mae	Ed-So	Bentonville
Bare, Noel Milton	E-F	Eureka Springs
Barham, William Calvin	Ed-So	Prescott

Name	Course	Home Address
Barlow, Tula.....	Ed-Sp.....	Prescott
Barnett, Clifford Hasting.....	Ed-F.....	El Dorado
Barnett, Helen Frances.....	A-Sr.....	Fayetteville
Barnett, Louis Raymond.....	A-So.....	Cotton Plant
Barr, Fay Dearing.....	A-Sr.....	Prairie Grove
Barrett, Edward Rush.....	A-Sr.....	Black Oak
Barron, Cloma Gertrude.....	Ed-So.....	Friendship
Barton, Earl Houston.....	E-F.....	Fayetteville
Bates, Frances Clementine.....	Ag-J.....	Fayetteville
Bates, Frank DeWitt.....	A-F.....	Texarkana
Bates, Lucile Dyer.....	A-J.....	Fayetteville
Batjer, Jack.....	Ag-F.....	Fayetteville
Batjer, Lois May.....	Ag-J.....	Fayetteville
Batjer, Robert.....	Ag-F.....	Fayetteville
Baxter, Margaret Josephine.....	Ag-So.....	Texarkana
Beasley, Edward Leonard.....	E-So.....	Hot Springs
Beasley, Jeanette Elizabeth.....	Ed-So.....	Cabot
Beasley, Ray Basel.....	Ed-So.....	Fayetteville
Beauchamp, Charles Henry.....	Ed-So.....	Fayetteville
Beauchamp, Helen Elizabeth.....	A-F.....	Blossom, Texas
Beauchamp, Herbert.....	A-F.....	Marianna
Beauchamp, Raymond Orval.....	A-F.....	Fayetteville
Beavers, Mabel Margaret.....	Ag-F.....	Saint Louis, Mo.
Beck, Robert Roy.....	E-T.....	Monte Ne
Bedford, Sam Lynn.....	A-J.....	Paris, Texas
Belding, Paul Brooks.....	A-F.....	Hot Springs
Bell, Gaston Fee.....	A-F.....	Crossett
Bell, Margaret Oliver.....	A-So.....	Hope
Beloate, Wm. Edmund.....	A-So.....	Fort Smith
Belzung, Paul.....	E-F.....	Fort Smith
Beebrook, Clyde Raymond.....	Ag-F.....	Fayetteville
Berge, James Maclyn.....	A-So.....	Nashville
Bennett, Bruce Winfred.....	E-So.....	Siloam Springs
Bennett, Cletos Otho.....	E-Sr.....	Fayetteville
Bennett, George M.....	A-So.....	Paris
Berry, Homer Lester.....	Ed-Sr.....	Carlisle
Berry, Irma Lee.....	A-J.....	Fayetteville
Berry, Nellie Mae.....	Ag-So.....	Carlisle
Berry, Nieta Frances.....	Ed-So.....	Westville, Okla.
Berry, Virginia Aldredge.....	Ed-So.....	Charleston
Berryman, Lawrence Dixon.....	A-So.....	Russellville
Bess, John William.....	ATC.....	Fayetteville
Betzner, Hazel Kathleen.....	Ag-F.....	Biscoe
Bevill, Leslie Foster.....	E-So.....	Kensett
Bigger, Turner.....	A-So.....	Pocahontas
Binns, James Oscar.....	E-T.....	Kellyville, Okla.
Bird, Irene.....	A-So.....	Waldron
Birdsong, Bessie Okla.....	Ag-So.....	Carlisle
Black, J. McDowell.....	Ed-F.....	Pocahontas
Black, Lena.....	Ag-So.....	Bentonville
Blackburn, Clifford Stringfield.....	E-Sr.....	Danville
Blackburn, Mildred.....	Ed-J.....	Prairie Grove
Blackmun, Lynn Allen.....	E-J.....	Fayetteville
Blair, Elizabeth Virginia.....	A-F.....	Fayetteville
Blair, William Adams.....	E-T.....	Fayetteville
Blankenship, Ray Owen.....	Ed-F.....	North Little Rock
Blanks, Frederick Phillip.....	A-F.....	Hamburg
Blanchard, Ruth Elizabeth.....	Ag-So.....	Fayetteville
Blanton, Earl Clarence.....	E-Sp.....	Marked Tree
Blevins, Eloise.....	Ed-Sp.....	Dardanelle
Blood, Grace Louise.....	Ed-F.....	Fayetteville
Bocquin, Mary Emma.....	Ag-Sr.....	Fort Smith
Bogart, Clarence Nall.....	A-So.....	Forrest City
Bogert, Julia.....	A-J.....	Fayetteville
Bogert, Marguerite Lozier.....	Ed-F.....	Fayetteville
Boggs, Hugh McAndrew.....	A-J.....	Fayetteville

Name	Course	Home Address
Boggs, Ruth.....	A-So.....	Fayetteville
Bohart, James McGill.....	A-F.....	Fayetteville
Boles, Gordon.....	A-F.....	Dardanelle
Bollinger, Audrey.....	Ed-So.....	Fort Smith
Bond, Minta Lee.....	A-J.....	Fayetteville
Booth, James Daniel.....	E-F.....	Muskogee, Okla.
Boozman, Herman Gordon.....	Ed-F.....	Fort Smith
Bossemeier, Frances Marion.....	A-So.....	Fayetteville
Boswell, James Richard.....	E-F.....	Hot Springs
Botorff, Melvin.....	A-So.....	Little Rock
Boulware, William Lester.....	E-F.....	Hillsboro, Ohio
Bowman, Byrne Arnold.....	A-Sp.....	Muskogee, Okla.
Bowman, Eugene C.....	L-So.....	Newport
Bowman, George Frederick.....	Ag-J.....	Rogers
Bowman, Ruth Elmore.....	Ag-So.....	Newport
Box, Nina Merrill.....	Ag-I.....	Neosho, Mo.
Boyd, Mary Turley.....	Ag-J.....	Fayetteville
Brabec, Antone E.....	A-I.....	Dardanelle
Bradley, Beulah Isabel.....	Ed-J.....	Little Rock
Bradley, Johnie Roy.....	E-I.....	Wesson
Brady, Elmer Harold.....	A-So.....	Hot Springs
Branch, Goodman Shinault.....	E-F.....	North Little Rock
Branch, Sam Houston.....	Ed-J.....	Branch
Bransford, Joseph Rorie.....	E-So.....	Lonoke
Brasher, Beryl Hey.....	A-Sr.....	Houston, Texas
Brewster, Edna Earl.....	Ed-F.....	Pine Bluff
Brewster, Eugene Bryan.....	A-F.....	Cane Hill
Briant, George Henry.....	E-F.....	Ashdown
Bridgforth, David Thomas.....	A-So.....	Forrest City
Bridgforth, Otto Rollwage.....	A-So.....	Forrest City
Brodie, Wm. Thompson.....	E-F.....	Batesville
Bronaugh, Frank Edward.....	A-F.....	Augusta
Brooks, Joseph.....	A-F.....	Little Rock
Brown, Adrienne Avera.....	A-F.....	Little Rock
Brown, Charles Albert.....	A-Sr.....	Fayetteville
Brown, Gordon Russell.....	A-I.....	Scott
Brown, Harry K.....	E-T.....	Searcy
Brown, Hurley Wilbert.....	Ed-So.....	Fayetteville
Brown, John Grover.....	E-I.....	Rogers
Brown, Richard Leon.....	Ed-F.....	Siloam Springs
Brown, Thomas Duel.....	A-F.....	Pocahontas
Brown, Verus.....	A-F.....	Fayetteville
Broyles, Henry Engels.....	E-I-F.....	Farmington
Broyles, Lela M.....	Ed-F.....	Gentry
Brumfield, Wm. Frederick.....	A-F.....	Heber Springs
Brvant, Emiline Waittington.....	A-I.....	Belton, Texas
Brvant, Mary Lou.....	Ed-So.....	Fort Smith
Buchanan, Raymond Moore.....	E-J.....	Clovis, N. M.
Buechley, Mary Lydia.....	Ag-Sr.....	Carlisle
Buerkle, Marie Ruth.....	A-F.....	Stuttgart
Bullen, Ruth Grace.....	Ed-I.....	Fayetteville
Bunch, Charles Samstag.....	Ag-Sr.....	Waldstein
Burden, William Harold.....	A-So.....	Sarcoxie, Mo.
Burk, James Houston.....	A-So.....	Jonesboro
Burke, Henry.....	Ag-F.....	Fayetteville
Burke, Ollie David.....	Ag-J.....	Fayetteville
Burnett, Russell Alfred.....	A-So.....	Paragould
Burham, Edythe Belle.....	Ed-So.....	Glenwood
Burns, Coleman Dean.....	ATC.....	New York, N. Y.
Burriside, Frank Hunt.....	E-I.....	El Dorado
Burrell, Elizabeth.....	A-F.....	Springdale
Burrow, Carroll Miller.....	E-So.....	Little Rock
Burt, Wilma Dorothy.....	Ed-F.....	Fayetteville
Burton, Edward Thomas.....	E-F.....	McCrory
Burhey, George Gordon.....	E-J.....	McGehee
Bushmaner, Brinkley.....	Ag-F.....	Alma

Name	Course	Home Address
Butler, Kathryn.....	Ed-So.....	Little Rock
Buttry, Charlotte Montez.....	Ed-So.....	Rogers
Byars, Louis T.....	A-F.....	Alma
Byrd, Claude Justin.....	Ag-Sr.....	Augusta
Byrd, Porter Jackson.....	E-F.....	Patterson
Byrne, Eva Elizabeth.....	Ed-F.....	Meridian
Cady, Ruth Louise.....	A-F.....	Fayetteville
Cain, Celeste Jean.....	A-So.....	Cotton Plant
Caldwell, Alpha Gertrude.....	Ed-So.....	Malvern
Caldwell, Creed.....	Ed-F.....	Pine Bluff
Camp, Alonzo DeAllyion.....	Ed-Sr.....	Patmos
Campbell, Blanche Maude.....	A-So.....	Fayetteville
Campbell, Henryetta.....	Ed-F.....	Ashdown
Campbell, Rosa Thelma.....	A-So.....	Portales, N. M.
Canada, Otho T.....	A-F.....	Little Rock
Caunon, Helen.....	Ed-F.....	Marianna
Cantrell, Martin Loren.....	E-F.....	Marked Tree
Cantrell, Ruth Ester.....	Ag-F.....	Fort Smith
Cantrell, Seldon Jay.....	E-T.....	Blue Ridge, Texas
Cargill, James.....	Ed-F.....	Stamps
Carlisle, Ineze.....	Ag-F.....	Fayetteville
Carman, Mary Elizabeth.....	Ed-So.....	North Little Rock
Carmichael, John Hugh.....	A-F.....	Little Rock
Carnahan, Hazel Maurine.....	A-So.....	Smackover
Carpenter, Robert Edwin.....	A-F.....	Neosho, Mo.
Carroll, James Hardy.....	A-F.....	El Dorado
Carruth, Margaret Elizabeth.....	A-J.....	Little Rock
Carruth, Paul Pealey.....	Ag-J.....	Ursula
Carter, Gladys Carter.....	Ed-J.....	Fayetteville
Carter, Nellie Maxey.....	A-F.....	Texarkana
Cassell, Zona Lee.....	Ag-F.....	Joplin, Mo.
Castles, Volney.....	Ed-So.....	Fayetteville
Cecil, Clide Wilbur.....	A-F.....	Fayetteville
Cecil, J. Gilbert.....	E-So.....	Valliant, Okla.
Champion, Mary Amelia.....	Ag-J.....	Gillett
Chandler, Commodore Gatum.....	E-Sp.....	Silcoam Springs
Chandler, Florina F.....	Ed-J.....	Miami, Okla.
Chaney, Carroll Dwight.....	Ed-F.....	Fayetteville
Chase, Chice.....	Ed-F.....	Osage
Chappell, William Ren.....	A-F.....	Cushman
Cheek, John Paul.....	E-F.....	Atkins
Cherry, Marie.....	A-J.....	Paris
Chipman, Marvin.....	A-So.....	El Dorado
Chitwood, Hoyt Mozart.....	ATC.....	Magazine
Chastek, Cyrell.....	ATC.....	Oklahoma City, Okla.
Chrisler, Verna.....	E-So.....	Harrison
Clark, Alfred Losee.....	E-So.....	Calico Rock
Clark, Frances Grace.....	Ag-So.....	Fayetteville
Clark, Hugh Thomas.....	A-J.....	Little Rock
Clark, Lloyd Carmean.....	Ag-F.....	Fayetteville
Clark, Robert Harold.....	E-F.....	Springdale
Clark, Ruth Margaret.....	A-J.....	Jenny Lind
Claybaugh, Herbert William.....	E-F.....	Van Buren
Claypool, Eutha Mildred.....	Ag-So.....	Springdale
Clayton, Junius Pugh.....	E-F.....	Ozark
Clement, George Muller.....	A-So.....	DeQueen
Clemmer, Iva May.....	Ag-F.....	Gentry
Clemmer, James Franklin.....	A-So.....	Gentry
Cleveland, William Porter.....	E-Sr.....	Pine Bluff
Cliett, Thomas Travis.....	A-F.....	Fort Smith
Clift, Charles Allon.....	E-I.....	Malvern
Cobb, Ava.....	Ed-So.....	Little Rock
Cocoran, Mrs. Henry.....	Ed-J.....	Clarksville
Cochran, Henry.....	Ag-J.....	Russellville
Cockrill, Curtis Charles.....	E-F.....	Benton
Coffey, Morna Lucile.....	Ed-So.....	Foreman

Name	Course	Home Address
Colbert, Katherine Chinn	Ed-J	Minden, La.
Cole, George Robert	E-T	Bauxite
Coleman, E. M.	Ag-F	Strong
Coleman, Samuel Wallace	Ed-Sr	Strong
Collie, Daniel Luther	E-T	Jacksonville, Texas
Collier, Clvye William	E-So	Gillett
Collins, Benjamin Thomas	A-F	Dumas
Compton, Agnes	Ag-J	Batesville
Compton, Ernest Selden	A-So	Little Rock
Comstock, Rebecca Pauline	Ag-F	Van Buren
Cone, Jack Drury	A-F	Pine Bluff
Conley, Guy	Ed-F	Paris
Conner, Helen Hunt	A-F	Fayetteville
Conner, Mary Margaret	Ed-So	Fayetteville
Cook, Dorothy	A-F	Malvern
Cook, Richard Henry	E-F	Fayetteville
Cook, Mrs. Thomas Jefferson	Ed-F	McCrory
Cook, Thomas Jefferson	E-T	McCrory
Coon, Claude Otto	A-F	Muskogee, Okla.
Coonfield, Ben Randolph	A-J	Lowell
Cooper, Melvern A.	ATC	North Little Rock
Cordry, James Thomas	Ed-F	Fayetteville
Corley, Powell Reuben	ATC	Fort Smith
Cotton, Nell E.	Ed-J	Houston, Mo.
Cowger, James Ira	Ag-F	Danville
Cox, Arlie Bell	A-Sp	Reader
Cox, Burtice Lewis	E-F	Fayetteville
Cox, James Thomas	A-F	Little Rock
Cox, Lydia Beatrice	Ed-Sr	Vale
Cox, Mary Bell	Ag-F	Fayetteville
Cox, Russell Eugene	A-F	Mena
Crabough, Charles Quentin	A-F	Bentonville
Craig, Ashlev William	A-F	Wilson
Craig, Lillian Ruth	Ag-So	Fayetteville
Cravens, John Parke	Ed-F	Magazine
Crawford, Albert Buell	A-So	Green Forest
Crawford, Roy Henry	E-F	Arkadelphia
Crenshaw, Alice	Ag-Sr	Fayetteville
Crenshaw, Ernest Dill	E-F	Dermott
Crockett, Charles Hayes	ATC	Fayetteville
Cross, Bennie Lee	Ed-F	Texarkana
Crow, Edward Walter	A-F	Little Rock
Crow, Reece Louis	E-F	Crossett
Crutcher, Alice Carmen	Ed-F	Springdale
Crutcher, Frances Hunter	A-F	Pine Bluff
Culver, Cecil Roy	A-So	Mammoth Spring
Cunningham, Marcus Earl	A-So	Fayetteville
Culp, Everett A.	ATC	Littlefield
Curl, Bess W.	Ed-F	Hot Springs
Daggett, John Lockwood	A-F	Marianna
Dale, Ethel	A-Sr	Fort Smith
Dalton, Marvin Lewis	Ed-So	Pocahontas
Dampf, Harlie	E-F	Marshall
Daniel, George Edwin	A-So	Arkadelphia
Daniel, Mary Ida	A-Sr	Fayetteville
Daniel, Nellie Mae	A-Sr	Fayetteville
Darland, Jane Josephine	Ed-F	Fort Smith
Darr, Mary Alice	Ed-So	Little Rock
Davidson, Ruby Irene	A-F	Fayetteville
Davis, Dorothy Landon	A-F	Little Rock
Davis, Halsell S.	A-Sr	Anna, Texas
Davis, Louis Elmer	A-F	Hot Springs
Davis, Mary Rebecca	Ed-F	Texarkana
Davis, Mozelle	Ag-Sr	Fayetteville
Davis, Ray E.	A-So	Melbourne
Deadrick, William Heiskell	A-F	Hot Springs

Name	Course	Home Address
Deal, Philip Lafayette.....	A-Sr.....	Lonoke
Dean, Arteen Janet.....	Ed-F.....	Fayetteville
Deen, Delmas.....	Ed-F.....	Paris
Demarke, Joseph.....	E-I.....	Arkansas City
Demarke, Lawrence Edward.....	A-So.....	Arkansas City
Dennison, Blanche.....	A-F.....	Stuttgart
Denson, Henry Otis.....	E-T.....	Kirkland, Texas
Denson, Raymond I.....	A-So.....	Kirkland, Texas
Derry, Louis Lee.....	Ed-I.....	Paragould
DeShong, Louis Carter.....	A-F.....	Bentonville
DeSpain, Anna.....	A-I.....	Siloam Springs
Dever, Zetta Pearl.....	Ag-So.....	Fayetteville
DeWitt, Charles Burns.....	Ag-F.....	Gentry
Dhonau, Lloyd A.....	Ag-So.....	Watson
Dibrell, James Peirce.....	A-F.....	Van Buren
Dickinson, George Wallace.....	A-So.....	Horatio
Dickson, Elbert.....	ATC.....	Longview, Texas
Dickson, Hugh Clint.....	E-I.....	Perryville
Dildy, Coy.....	A-F.....	Nashville
Dill, Arthur.....	ATC.....	Red Oak
Dill, Sam Loid.....	E-Sr.....	Little Rock
Dill, Thelma Henson.....	Ed-F.....	Little Rock
Dixon, Edward Walter.....	E-F.....	Little Rock
Donathan, Jeff.....	A-F.....	Booneville
Dorlev, Arthur Walker.....	E-T.....	Bradford
Dooley, Carleton W.....	A-I.....	Fayetteville
Dooley, Isabel Walker.....	A-Sr.....	Fayetteville
Dougan, Aulton B.....	A-F.....	Little Rock
Douglass, Thomas Carter.....	A-So.....	Ozark
Dowd, Willie J.....	Ag-Sr.....	Prescott
Doyle, Clay.....	Ed-So.....	Walnut Ridge
Dozier, Charles Bingham.....	A-Sr.....	Moro
Dozier, James H.....	ATC.....	Jamestown
Drake, Doris.....	A-F.....	Fayetteville
Drummond, Tom Melville.....	A-F.....	DeQueen
Dulin, Lucy Anna.....	Ed-F.....	Little Rock
Duggans, Frances Katherine.....	Ag-So.....	Fayetteville
Duncan, Treva Isabelle.....	Ed-So.....	Waldron
Dunn, Charles.....	E-So.....	Eureka Springs
Dunn, Richard Rolling.....	A-So.....	Fayetteville
Dupras, Edmond.....	ATC.....	Fayetteville
Duorce, Callie Stone.....	Ag-Sp.....	Jacksonville
Eagle, Minnie.....	Ed-So.....	Lonoke
Earle, Fontaine Richard.....	E-So.....	Fayetteville
Earle, John Baylis.....	Ed-Sr.....	Fayetteville
Easley, Edgar Jesse.....	A-So.....	Little Rock
Eastland, Joseph Milton.....	E-F.....	Hugo, Okla.
Eberle, Fred Charles.....	E-F.....	Little Rock
Edmiston, Theo Laev.....	A-F.....	Washington, D. C.
Edwards, Anna Florence.....	Ed-F.....	Texarkana
Edwards, Carl.....	A-F.....	Alma
Edwards, Ralph Benjamin.....	E-F.....	Heber Springs
Elliott, Lloyd Carlton.....	Ag-So.....	Parks
Ellis, Charles Edmund.....	E-Sr.....	Rogers
Ellis, Claude Herbert.....	E-F.....	Mammoth Spring
Ellis, David Yancev.....	E-F.....	Fayetteville
Ellis, Elizabeth Dupree.....	A-F.....	Fayetteville
Eoff, Vallie.....	A-I.....	Stephenville, Texas
Estes, Everette Edward.....	A-F.....	Little Rock
Estes, Kenner Lawrence.....	A-F.....	Yellville
Evans, Mildred Frances.....	A-F.....	Little Rock
Evans, William Clarence.....	A-Sr.....	Atkins
Evatt, Bernis Carl.....	E-F.....	Waldron
Euhanks, James Earl.....	ATC.....	Garfield
Farmer, Archie Madison.....	E-T.....	Asher
Farmer, Myrtle.....	A-Sr.....	Newport

Name	Course	Home Address
Farnsworth, Glenn O.	A-F	Waldron
Farrior, Dorothy	Ed-So	Little Rock
Farris, Eloise	Ed-So	Fort Smith
Farris, Guy Logan	A-F	Clovis, N. M.
Farris, Jeff	Ed-J	Conway
Felt, Jack Osborne	A-So	Siloam Springs
Fenno, Edward Ray	Ed-F	Siloam Springs
Fewkes, Alma Lydia	A-J	El Dorado
Fields, Zella	Ag-F	Mansfield
Finch, Betty	A-J	McKinney, Texas
Fincher, Thalia Alice	A-So	Waldo
Findley, Samuel Earl	ATC	Wells, Texas
Finger, Hubert P.	A-Sp	Fayetteville
Finger, Julia Louise	A-F	Fayetteville
Finkbeiner, Mary Louise	Ag-So	Benton
Finklea, Asa Walter	E-F	Hot Springs
Finley, David Mills	A-F	Hope
Finley, Paul Edgar	Ed-F	Trout, La.
Fish, George Reece	E-F	Little Rock
Fisher, Veva Lou	Ag-So	Fort Gibson
Fitch, Irma	Ag-Sr	Hindsville
Fitzhugh, Rufus Davis	A-F	Augusta
Fitzjarrell, Jeanette	A-So	Fayetteville
Fitzjarrell, Jessie	A-So	Fayetteville
Fitzjarrell, Ruth Irene	A-F	Fayetteville
Fitzpatrick, Feaster Fay	A-F	Mansfield
Flater, Mark H.	E-T	Dardanelle
Fleak, Mable Harris	Ag-J	Fayetteville
Fleak, Roy Everett	E-Sr	Muskogee, Okla.
Flv, Lucia King	A-J	Little Rock
Foley, Annette N.	A-So	Fayetteville
Foley, Ralph Timothy	Ed-F	Fayetteville
Fontaine, Earnest H., Jr	A-J	Clarksville
Foote, Henry Clyde	Ed-So	Summers
Ford, Forrest	Ed-So	Fort Smith
Forgv, Percy O'Dell	A-Sr	Dierks
Forrester, John Hughes	A-F	Waldron
Fortune, Roland L.	E-T	Searcy
Foster, Edwin L.	A-F	Stephens
Fowler, Lillian Elizabeth	A-F	Little Rock
Fowlkes, Frances Elizabeth	Ed-F	Dardanelle
Fracker, Clara Katherine	Ed-J	Fayetteville
Fracker, Nova Phila	A-F	Fayetteville
Frasier, Helen	Ed-So	Ozark
Fraser, John A.	Ed-F	Lawton, Okla.
Frazier, Andrew Jackson	A-So	Little Rock
French, Elizabeth Park	Ed-Sp	Fayetteville
Freyschlag, Helen	Ed-So	Fayetteville
Friend, Harold Lloyd	E-J	Fayetteville
Frve, Clarence A.	A-Sp	Muskogee, Okla.
Fulbright, Mrs. J.	A-Sp	Fayetteville
Fuller, Alma Irene	Ed-F	Wcleetka, Okla.
Fuller, Robert Pickens	A-J	Waldron
Futrell, Emily	A-Sr	Fayetteville
Futrell, Junius Byron	Ed-J	Paragould
Gaddy, Joseph Carroll	Ag-Sr	Wilmar
Gage, Jack John	E-So	Fayetteville
Gage, James Thomas	E-F	Fayetteville
Gaither, Loren Elmer	E-F	Siloam Springs
Galloway, Charles Rich	A-F	Little Rock
Gambill, Leta Maxine	Ed-F	Bentonville
Gammill, Eva	A-So	Pine Bluff
Gann, William Eulus	A-So	Abbott
Gant, John Gray	A-F	Harrisburg
Gardner, Malcolm Everett	Ed-So	Hamburg
Gardner, Tom Sherwood	E-T	Marietta, Okla.

Name	Course	Home Address
Gardner, William Wesley.....	E-J.....	Richmond
Garrison, Benjamin Franklin.....	A-So.....	St. Joe
Garrison, Esta Viola.....	E-F.....	Fayetteville
Garrison, Glenn.....	A-J.....	DeQueen
Garvin, O. W.....	A-Sr.....	Harrison
Gatlin, Jim Bill.....	A-F.....	Danville
Geary, Charles Warren.....	Ag-Sr.....	Harrison
Gelling, James Clark.....	E-F.....	Springdale
Gentry, Claude Leffel.....	A-F.....	Hope
Gentry, Roy Vernon.....	E-F.....	Pine Bluff
George, Jack R.....	A-So.....	Ola
Glendon, Roy Lee.....	E-So.....	Fayetteville
Gibbs, Arthur Myers.....	A-F.....	Goldsboro
Gibson, Newell Clarence.....	E-Sr.....	Eureka Springs
Gibson, Wayne Folk.....	A-F.....	Eureka Springs
Gilbreath, Bernard.....	E-So.....	Fayetteville
Gilbrech, Harold Rayer.....	A-F.....	Palmer
Giodici, Robert Neal.....	E-F.....	Little Rock
Givens, William Geary.....	E-F.....	Little Rock
Gladney, Don Wesley.....	A-F.....	Lewisville
Glascock, Edgar Hulen.....	A-Sp.....	Hillenville, Okla.
Glasgow, Irvin Ora.....	A-F.....	Rector
Glass, Charles Warren.....	E-F.....	Marrett, Mo.
Glenn, Loyd Earl.....	E-T.....	Indianapolis, Okla.
Glockengieser, Lawrence Elton.....	A-So.....	Corning
Glover, Shelburne Hill.....	A-F.....	Ba Swite
Godbey, Milens Jethro.....	E-J So.....	Arkens
Goff, Norris Finley.....	A-F.....	Mena
Goff, Ruby Irene.....	Ag-So.....	Fayetteville
Goodrich, James M.....	Ed-So.....	Osceola
Goodwin, Helen.....	A-So.....	Fayetteville
Goodwin, Walter Shannon.....	A-F.....	El Dorado
Gordon, Herbert Lewis.....	A-F.....	Atwood, Ohio
Gore, Utes Roy.....	Ag-Sr.....	Fayetteville
Gore, Mabel Annie.....	E-F.....	Springdale
Gosnell, Gladys Margaret.....	A-So.....	Springdale
Gosnell, Leo.....	E-So.....	Springdale
Gosnell, Robert Ferdinand.....	E-So.....	Springdale
Gossard, Jo Lee.....	A-F.....	Post Smith
Gould, Jesse Howard.....	E-F.....	Pine Bluff
Gould, Mildred Frances.....	A-F.....	Pine Bluff
Grabiell, Richard.....	A-So.....	Fayetteville
Grace, Annette.....	A-F.....	Little Rock
Grade, Eugene Ernest.....	A-F.....	Little Rock
Grant, Shelly Clair, Jr.....	E-F.....	Mulberry
Graves, Homer Dodson.....	E-Sr.....	Springdale
Gray, Albert Wade.....	E-F.....	Fayetteville
Gray, Frances E.....	A-F.....	Fayetteville
Gray, Myrtle Lucile.....	Ag-Sr.....	Fayetteville
Gray, William Edward.....	A-So.....	Little Rock
Greathouse, Margaret.....	Ed-J.....	Fayetteville
Green, Graydon Davis.....	E-F.....	Hope
Green, Ralph Lynn.....	E-F.....	Hill Springs
Green, Robert Earl.....	A-So.....	Little Rock
Greer, Clyde.....	Ag-So.....	Eureka Springs
Greer, Ruth Eleanor.....	A-F.....	Springdale
Greer, Ruth Rebecca.....	Ed-So.....	Ozark
Greer, Thomas Benjamin.....	Ag-Sr.....	Grandview
Gregory, Pearl T.....	A-J.....	Fayetteville
Gregory, Clayton.....	E-T.....	Clifton, Texas
Griffee, John Franklin.....	A-So.....	Little Rock
Haigh, Walker Creed.....	E-F.....	Fayetteville
Haines, Joseph Forest.....	A-So.....	Fort Smith
Haidlin, Ralph Herman.....	E-F.....	Fayetteville
Hale, Evelyn Margaret.....	Ed-So.....	Prescott
Hale, Eugene Benjamin.....	Ag-So.....	Prescott

Name	Course	Home Address
Hale, John S., Jr.	E-F	Memphis, Tenn.
Hale, Walter Samuel	Ed-Sr	Camden
Hale, William Paul	E-F	Little Rock
Hall, LeRoy, Jr.	A-F	Hot Springs
Hall, Lois Jewell	Ed-J	Webb City
Hall, Lonnie Elias	A-J	Fayetteville
Hall, Lynn Anthony	Ed-F	Eagle Mills
Hall, Orville Jacklin	Ag-Sr	Springdale
Hall, Virginia	A-So	Fayetteville
Halley, Fred Elmer	A-So	Malvern
Halley, Margaret	Ed-F	Van Buren
Halwe, Freda Marie	A-So	Fayetteville
Hambric, Eugene Roy	A-F	Fort Smith
Hamilton, Mrs. Daisy D.	Ag-So	Fayetteville
Hamilton, James Forrest	Ag-So	Wynne
Hamilton, James Norman	Ed-J	Pine Bluff
Hamilton, Ralph B.	A-F	Wynne
Hammett, Thomas Edward	E-Sr	Fayetteville
Hammontree, Cleo Evelyn	Ag-F	Fayetteville
Hancock, Doy Lee	A-J	Fayetteville
Hancock, Michael Quigley	A-F	Mena
Hanes, Orrin Paul	A-F	Texarkana
Haney, Olen Knight	E-Sr	Aurora
Hanks, Ora Joe	Ed-F	Johnson
Hanley, Claudia Ray	Ed-So	Tuckerman
Hannah, Leland Margaret	A-F	Wynne
Hansard, Mary Helen	Ed-So	Fayetteville
Harbison, Claude D.	ATC	Monticello
Hardgrave, Alice Ella	Ed-F	Van Buren
Hardin, Bess	Ed-So	Grady
Hardin, Clifton	A-J	Fayetteville
Hardin, Gordon Luther	Ed-F	Boonville
Harding, Mary Frances	A-So	Fayetteville
Harding, William Brewster	Ed-I	Fayetteville
Hardway, Henry Chester	Ed-F	Fort Smith
Hardy, Ritchie Jane	A-F	Pine Bluff
Harrill, Katherine	E-F	Little Rock
Harrington, Conrad Fred	A-F	Paris, Texas
Harms, A. Elizabeth	A-Sr	Little Rock
Harper, Clio Armitage	A-I	Lewisville
Harrel, Robert Frank	A-So	Wagoner, Okla.
Harris, Fannie	Ag-J	Fayetteville
Harris, George Feeldon	E-T	Waco, Texas
Harris, Harold Hinkle	Ed-F	Melbourne
Harris, Ida Mae	Ed-So	Waldron
Harris, Naon Joe	A-So	Belleville
Harris, Walter Wilman	Ed-So	Fayetteville
Harrison, Grace	Ed-I	Fayetteville
Harrison, Ralph Floyd	Ed-So	Strong
Hart, Alton Rogers	A-F	Fayetteville
Hart, Beach Leone	Ed-F	Rogers
Hart, Hugh Ross	E-So	Prescott
Hartshorn, Jane	A-F	Fort Smith
Harwell, Catherine Pulliam	A-Sp	Oceola
Haskew, C. Leveret	Ag-So	Fountain Hill
Hatfield, Walter Bone	Ag-J	Paragould
Hathcock, Alfred Hiram	A-J	Fayetteville
Hathcock, Helen Lee	A-J	Hampton
Hathcock, Preston Loyce	A-Sr	Fayetteville
Hawk, Dwight	A-F	Fayetteville
Hawk, Lillian Grace	Ag-F	Fayetteville
Hawkins, Fred Washington	A-F	Waldron
Hawkins, George Crawford	A-F	Foreman
Hawthorne, Greene Bryan	E-So	Waldron
Havnes, Elmer	A-So	Charleston
Havs, Colquette Earl	Ed-So	Atkins

Name	Course	Home Address
Hays, Robert Ray.....	Ag-F.....	Wynne
Hays, William F.....	A-F.....	Little Rock
Head, Claude Dedmond, Jr.....	A-So.....	Memphis, Tenn.
Head, James DeKalb, Jr.....	A-Sr.....	Texarkana
Head, Leroy.....	E-F.....	Norphlet
Heerwagen, Margaret.....	Ed-J.....	Fayetteville
Helbling, Emile Felix.....	A-F.....	Fort Smith
Hemphill, John Anderson.....	Ag-Sr.....	Richmond
Henbest, Ross Charles.....	A-So.....	Fayetteville
Henbest, Wayne Albert.....	Ed-F.....	Fayetteville
Henderson, Lee Oliver.....	E-F.....	Fayetteville
Hendricks, Thomas Andrews.....	A-So.....	Fort Smith
Hendrix, Carl Edward.....	Ag-F.....	Gillham
Henley, Ben Charles.....	A-So.....	Saint Joe
Henley, Frank.....	E-T.....	Cleveland
Henry, Audra Lou.....	Ed-F.....	Fayetteville
Henry, Clara.....	Ed-Sr.....	Lake Village
Henry, DeWitt Roscoe.....	A-F.....	Searcy
Henry, Mildred.....	Ed-J.....	Helena
Hensley, Elias Turner.....	A-F.....	Portales, N. M.
Hensley, Frona Lorene.....	A-F.....	Portales, N. M.
Henson, John E.....	ATC.....	Frisco, Texas
Herman, Olin F.....	Ed-So.....	Fayetteville
Hernsberger, Carroll Gray.....	Ed-So.....	Fordyce
Hernsberger, Earl Hunter.....	A-So.....	Fordyce
Hesseltine, Mrs. William Best.....	Ed-So.....	Fayetteville
Hester, Arthur Guy.....	A-So.....	Crossett
Hester, Ralph Dewey.....	Ed-F.....	Evening Shade
Hester, Talmage Alfred.....	Ed-F.....	Tuckerman
Heston, Emily Miriam.....	A-J.....	Westville, Okla.
Hickman, Nelda.....	Ed-F.....	Hot Springs
Hicks, Daisy Jean.....	Ed-So.....	Warren
Hicks, Edwin Prentice.....	Ed-J.....	Greenwood
Hight, Jack Patterson.....	A-F.....	Fayetteville
Hight, Ferrce Brinton.....	Ag-So.....	Arkansas City
Hill, Robert Edward.....	E-F.....	Stuttgart
Hill, Wesley Brown.....	Ag-F.....	Stuttgart
Himstedt, Arthur E.....	E-So.....	Little Rock
Hinds, Hazel Stiles.....	Ag-Sr.....	Rogers
Hinton, Walter Ladson.....	A-F.....	Fort Smith
Hodges, Mildred Elizabeth.....	Ag-F.....	Mansfield
Hogue, James Earl.....	A-Sp.....	Little Rock
Hogue, Noble C.....	ATC.....	Dallas, Texas
Holcomb, Mary Emily.....	A-F.....	Fayetteville
Holder, Hazel Elizabeth.....	A-So.....	Little Rock
Holder, Nina.....	A-J.....	Little Rock
Hollabaugh, Cleveland Buchanan, Jr.....	A-J.....	Leslie
Hollabaugh, Ziff.....	Ed-F.....	Marshall
Hollis, Lynn.....	A-So.....	Little Rock
Hollis, Mildred C.....	Ed-J.....	Little Rock
Holloman, Houston J.....	A-F.....	DeWitt
Holt, Jack Wilson.....	A-So.....	Harrison
Hon, Jackson.....	Ed-So.....	Waldron
Hosca, Ben Walker.....	E-T.....	Lonoke
Hootin, George Calvin.....	ATC.....	Checotah
Hopkins, Galen Thomas.....	A-F.....	Paragould
Hopkins, Winnie Odneal.....	Ed-F.....	Marianna
Hobner, Vance Ervin.....	E-So.....	Fayetteville
Hopson, William Hamilton.....	A-F.....	Mena
Hornor, John Lyford.....	E-F.....	Helena
Horsfall, James Gordon.....	Ag-Sr.....	Monticello
Horton, Dennis Walter.....	A-F.....	Forrest City
Horton, Lloyd Frank.....	A-So.....	Siloam Springs
Horton, Paul Vernon.....	A-F.....	Arkadelphia
Hossten, James N.....	E-Sr.....	Little Rock
Howard, Isaac Wesley.....	A-Sr.....	Provo

Name	Course	Home Address
Howard, Jack Houston.....	ATC.....	Mt. Calm, Texas
Hubbard, Albert Byron.....	E-F.....	Siloam Springs
Huckaby, Thomas Lee.....	E-F.....	Little Rock
Huddleston, James LeRoy.....	A-F.....	Brinkley
Huey, John Ellis.....	A-So.....	Van Buren
Hutmaker, Guy O.....	E-F.....	Morrilton
Hughes, Frances.....	A-J.....	Haynes
Hunt, Lynne Harris.....	E-F.....	Eureka, Kansas
Hummel, John Phillip.....	E-F.....	Fayetteville
Humphreys, Frank Edwin.....	Ag-F.....	Hot Springs
Hunsucker, Bonnie Gene.....	A-So.....	Lockesburg
Hunt, Alice Ann.....	Ed-So.....	Okemah, Okla.
Hunt, Herman H.....	Ag-F.....	Klondike, Texas
Hutcheson, James Edw.....	E-So.....	Magnolia
Hutcheson, Maye V.....	E-F.....	Magnolia
Hutson, Clarence Ed.....	Ed-F.....	Carlisle
Hyer, Jack N. Paul.....	E-So.....	Fayetteville
Hyer, Melvin Paul.....	A-F.....	Fort Smith
Igers, Neil Barton.....	E-So.....	Fort Smith
Irby, Payton Hill.....	Ed-F.....	Blue Mts.
Irby, Ruby Jaunita.....	Ed-So.....	Fayetteville
Ischen, Fletcher T.....	A-So.....	DeQueen
Ivie, Lillian Opal.....	A-F.....	Rogers
Jackson, Catherine May.....	Ag-So.....	Jacksonville
Jackson, Anne Lucile.....	A-Sr.....	Clarksville
Jackson, Edna Pearl.....	Ed-F.....	Centerville
Jackson, Gayle Morgan.....	E-F.....	Van Buren
Jackson, Herbert M.....	A-F.....	Marianna
Jackson, James Leroy.....	E-F.....	Rogers
Jacobs, Reyburn Whitefield.....	E-F.....	Bentonville
Jacobs, Robert Loas.....	E-So.....	Melbourne
James, Auldy R.....	ATC.....	Poteau, Okla.
Japo, Gus.....	E-F.....	Hindsville
Jernigan, Otis McCrory.....	E-So.....	McCrory
Jett, Wilbur C.....	A-So.....	Little Rock
Jett, Margaret L.....	A-So.....	Fayetteville
Jett, Vernon B.....	A-So.....	Fayetteville
Joblin, Allen.....	Ed-So.....	Porter, Okla.
Johns, Jeff.....	E-F.....	Paris
Johnson, John L.....	A-F.....	Foreman
Johnson, Joyce Winnifred.....	E-F.....	Charleston
Johnson, Maureen Mildred.....	E-F.....	Foreman
Johnson, Otis Patrick, Jr.....	E-F.....	Little Rock
Johnston, Edward Cherry.....	E-F.....	Fort Smith
Johnston, Frances Iren.....	Ed-F.....	Ozark
Johnston, Jerome Babcock.....	E-So.....	Fort Smith
Johnston, Wm. Allan.....	A-F.....	Fort Smith
Jones, Carolyn.....	Ed-F.....	Newport
Jones, Dorothy M.....	A-F.....	Fayetteville
Jones, Edward McDermott.....	A-F.....	Dermott
Jones, Geo. Madden.....	A-F.....	Fayetteville
Jones, Gordy Monroe.....	Ed-F.....	Junction City
Jones, Harry Courtney.....	A-So.....	Wesson
Jones, Hugh T.....	A-So.....	Rogers
Jones, Leonila.....	A-J.....	Marshall
Jones, Marjorie Carr.....	E-F.....	Corning
Jones, Oscar Eve.....	A-F.....	Newport
Jones, Robert Lee.....	A-F.....	Fort Smith
Jordan, Edith Austin.....	Ag-Sr.....	Fayetteville
Kanlan, Ike William.....	A-So.....	Helena
Karnes, Oscar Oliver.....	ATC.....	Pitkin
Kass, Paul Bryan.....	Ed-F.....	Texico, N. Mex.
Kee, Elizabeth Ann.....	A-F.....	Newport
Keeling, Arnot Thomas.....	Ed-F.....	Marshall
Keesey, Charles Boyd.....	ATC.....	Tyler, Texas
Keith, Angie Madge.....	A-F.....	Hiwassee

Name	Course	Home Address
Keller, Marguerite Emelia.....	A-F.....	Little Rock
Kellogg, Joe Ella.....	Ag-So.....	Sulphur Springs, Texas
Kellogg, Ruth Hosmer.....	Ed-F.....	Van Buren
Kennard, Mary Elizabeth E.....	A-Sr.....	Fayetteville
Kerr, Nellie Scott.....	A-S.....	Clarendon
Key, Hugh Benjamin.....	A-F.....	Fayetteville
Right, Kenneth Kelso.....	A-So.....	Malvern
Kilbourn, Alverta Wallace.....	Ed-J.....	Harrison
Kingere, Dail Elzie.....	A-F.....	Fordyce
Kimbrell, Robert Wright.....	Ed-J.....	Hot Springs
King, Cyrus Miles.....	A-S.....	Fayetteville
Kinz, Wendell Holland.....	A-S.....	Sulphur Springs
Kirby, Lillian.....	A-S.....	Harrison
Kirstpatrick, Inesley L.....	A-F.....	Fayetteville
Kitchens, Myrtle Marie.....	A-So.....	Waldo
Kitchens, Wade Hamilton.....	A-S.....	Clarendon
Knight, Henry Elmer.....	A-F.....	Hot Springs
Knight, Leland Houston.....	Ed-F.....	Booneville
Knott, George Hancy.....	A-So.....	Bentonville
Knott, H. Gordon.....	A-F.....	Bentonville
Koca, Marie E.....	A-Sr.....	Carlisle
Kramer, Charles T.....	Ed-Sr.....	Forrest City
Kregel, Horace.....	E-F.....	Fort Smith
Krone, Marie Ann.....	Ed-Sr.....	Fort Smith
Krugh, Leland.....	E-F.....	Stuttgart
Kurtz, Katherine B.....	Ed-F.....	N Little Rock
Kyle, Claude Heston.....	A-J.....	Marionette
Ladd, Jimmie Stirman.....	A-Sp.....	Hot Springs
Lafferty, John Lewell.....	A-So.....	Little Rock
Lambert, Carmen Fairlee.....	A-J.....	Clarendon
Lane, Myrie Frank.....	E-J.....	Rogers
Lane, William T.....	ATC.....	Bridgeport, Texas
Laney, Thomas Mann.....	Ag-F.....	Wilson
Lange, Robert Arnold.....	A-F.....	Little Rock
LaRane, James Herbert.....	E-T.....	Mena
Laseter, Fred.....	E-J.....	Harrison
Lattimer, Dorothy Grace.....	E-S.....	Fayetteville
Lattimer, Elizabeth Margaret.....	E-S.....	Fayetteville
Latto, Kenneth B.....	A-Sp.....	Rogers
Lauck, Chester Harris.....	A-Sp.....	Mena
Lavendusky, Albert Max.....	E-T.....	Hot Springs, Texas
Leach, Walter Wade.....	E-F.....	Hot Springs, Texas
Leake, James Prentiss.....	A-Sr.....	Fort Smith
Lee, Dorothy.....	E-F.....	Fort Smith
Lee, Ernest Elwyn Jr.....	E-F.....	Arkadelphia
Lee, Henry Keiffe.....	E-J.....	Eudora
Leeper, Marvin Tidwell.....	E-J.....	Benton
Leighton, Neuman.....	A-J.....	Clinton Park
Leimer, Harold Carl.....	E-F.....	Little Rock
Leming, Lellow.....	A-F.....	Waldron
Lenon, Warren E.....	A-Sr.....	Little Rock
Leonard, Elston Stewart.....	A-S.....	Fayetteville
Leonard, Leah Eoff.....	E-S.....	Fayetteville
Letsch, Dempsey O.....	E-S.....	Fayetteville
Lewis, Bessie.....	Ed-So.....	Fayetteville
Lewis, Edith Adelaide.....	A-F.....	Sulphur Springs
Lewis, Geraldine.....	A-F.....	Strong
Lewis, Helen Catherine.....	A-Sr.....	Fayetteville
Lewis, Theron Dean.....	E-F.....	Springdale
Lichty, Ernest C.....	E-So.....	Fort Smith
Lichty, Selwyn Jacob.....	E-S.....	Fort Smith
Lidell, Helen.....	A-S.....	Springdale
Lidell, Karolina.....	A-S.....	Springdale
Liebolt, Frederick L.....	A-Sr.....	Fayetteville
Ligon, Allie Maude.....	A-F.....	Carlisle
Lighton, Peggy Sue.....	A-J.....	Fayetteville

Name	Course	Home Address
Linsley, Guy S.	A-F	Rosboro
Linthicum, John Charles	A-Sr	Little Rock
Linton, Thomas Martin	ATC	Hoyt, Okla.
Lipe, John Harry	E-F	Carlisle
Little, Curtis Ollan	Ed-F	Abbott
Little, Sam Dana	A-So	Conway
Loden, John Warner	E-So	Fort Smith
Loden, Thomas Henry	E-F	Fayetteville
Logan, Edward Warren	E-F	Conway
Long, Alma Touryst	Ed-Sr	Checotah, Okla.
Long, Jewell	Ed-So	Fayetteville
Loudermilk, Hayden	E-F	Perryville
Love, Grace	Ag-J	Jonesboro
Lowdermilk, Ford Raephael	A-J	Judsonia
Lowe, Lorena	A-Sp	Little Rock
Lowe, Pearl	Ed-So	Little Rock
Lovell, Lasco Gaines	E-Sr	Springdale
Lowrance, Earl Demont	Ed-F	Hot Springs
Lowrey, John Jr.	Ag-F	New Blaine
Luck, Benjamin Dane	A-So	Pine Bluff
Lumpee, Lewis	E-F	Helena
Lund, Carl Frederick	Ag-So	Fayetteville
Lyles, John Stephen	E-J	Wagoner, Okla.
Lynn, Gladys Miriam	A-So	Little Rock
Lyon, Harry Earl	A-F	Muskogee, Okla.
Lvons, Mary Lee	A-Sr	Strong
McAllister, Max Franklin	A-So	Fayetteville
McArthur, Charley Bob	A-F	Morrilton
McBride, Harry James L.	A-F	Fayetteville
McBride, Noble Jasper	Ag-F	Marshall
McBurnett, Searcy D.	A-F	Pine Bluff
McCabe, Louie C.	A-F	Fort Smith
McCain, Hugh Mark	E-Sr	Monticello
McCain, Lester Albert	E-So	N. Little Rock
McCain, Mildred	Ag-So	Monticello
McCarroll, Otto Greene	Ag-J	N. Little Rock
McCatherine, Maxine Catherine	Ed-F	Fayetteville
McCatherine, Thelma	Ag-Sr	Fayetteville
McClinton, Theron Harrol	A-F	Fort Smith
McClure, Kittie Marcum	Ed-So	Muskogee, Okla.
McCoy, Francis Milton	Ed-So	Coffeyville
McCoy, Guv Dale	E-So	Morrilton
McCoy, Joseph Warren	A-So	Malvern
McCrary, Move Lee	Ag-F	Mt. Enterprise, Texas
McCullough, William Glenn	Ed-So	Paris, Texas
McCutchen, Duval Talmage	A-F	Abbott
McDavid, Waynard Phillip	A-F	Fayetteville
McDonald, DeKalb Lafayette	A-J	Junction City, La.
McEver, Melbourne L.	E-F	Itasca, Texas
McFaddin, John Garland	Ag-F	Russellville
McFarland, Tillman Russell	E-J	Nashville
McGarry, Minnie Marcille	Ed-Sp	Little Rock
McGaugh, Etna	Ag-J	Decatur
McGaugh, Louise	Ag-J	Decatur
McGehee, Edward Pelham	E-So	Lake Village
McGehee, Minnie	A-F	Lake Village
McGill, Annie Scott	Ag-Sr	Chidester
McGill, Josephine	Ed-Sr	Chidester
McGill, Mary Peel	A-F	Bentonville
McKeehan, Sam Paris	A-J	Hot Springs
McKeown, John Gordan	A-F	Springdale
McKinley, Joseph Golden	A-F	Fayetteville
McKinney, George Tempel	A-So	Wagoner, Okla.
McKnight, R. B.	E-J	Parkin
McLane, Sam R.	E-F	Fayetteville
McLaren, George Oscar	A-F	Atkins

Name	Course	Home Address
McManus, John LeRoy	E-F	Muskogee, Okla.
McMillin, Andrew Thomas	A-F	Little Rock
McMullen, Pearl Fears	Ed-Sp	Little Rock
McNatt, Leah Christine	Ed-J	Fort Smith
McNatt, Mary	A-F	Fort Smith
McNutt, James Luther	E-T	Arkadelphia
McNutt, John Harmon	Ed-F	Mesilla Park, N. Mex.
McRae, Phillip Edwin	Ag-F	Hope
McRaven, Charles Hampton	E-F	Little Rock
Maddox, Mrs. H. P.	A-Sp	Harrisburg
Maddox, Herman Peay	A-Sp	Harrisburg
Maddox, James Gray	Ag-So	Rison
Magness, William Grady	Ed-So	Lead Hill
Mahan, Hazel Margaret	A-So	Denton, Texas
Maners, Bessie Hazel	Ed-F	Stuttgart
Maners, Blanche Cornelia	Ed-F	Stuttgart
Mangum, George Cecil	E-F	Bald Knob
Mann, William Henry, Jr.	E-F	Little Rock
Marak, Charles Tom	E-Sr	Hazen
Marsh, Neil C.	A-So	El Dorado
Marshall, Susan Etta	Ag-J	College Station
Martin, Clara Walter	E-J	Newport
Martin, Edgar T.	E-Sr	Gentry
Martin, Gilbert Henry	A-Sr	Pine Bluff
Martin, Homer T.	ATC	Everton
Martin, William	A-J	Russellville
Mashburn, Zack L.	Ed-F	England
Mason, Morris	E-F	Wamble
Matlock, Emily Elizabeth	Ag-F	Fort Smith
Matlock, Loretta Mae	Ag-J	Fort Smith
Mathews, Louis N.	A-F	Lewisville
Matthews, Marie	A-F	El Dorado
Mattix, Elizabeth James	Ed-So	Texarkana
Maxwell, Alford James	A-F	Siloam Springs
May, Robert Otho	Ed-F	Rison
Maves, Harel Edna	Ed-So	Springdale
Maves, Rosa Elizabeth	Ed-J	Springdale
Mayfield, Wallace Irving	Ed-Sr	Fayetteville
Mays, Edward Duke	A-J	Port Arthur, Texas
Mayse, Opal O.	A-J	Western Grove
Means, Sarah Antoninette	A-F	Little Rock
Mehaffy, J. Pat	A-So	Little Rock
Mehlburger, Max Arthur	E-J	Fort Smith
Melton, William Lavelle	E-F	El Dorado
Merrick, Dana Turner	E-F	Pine Bluff
Metcalfe, Walter L.	E-So	Eufaula, Okla.
Mikler, Richard	E-Sp	Magazine
Milburn, Richard	Ed-F	Fayetteville
Miles, James Baxter	A-F	Fayetteville
Miles, Gertrude Ellis	Ed-J	Fayetteville
Miller, Adabelle	Ed-So	Fayetteville
Miller, Charles Eads	E-F	Van Buren
Miller, Fay	Ed-So	Wagoner, Okla.
Miller, Frances	Ed-So	Mobile, Ala.
Miller, Lelia Rav	Ed-J	Fayetteville
Miller, Louise Elizabeth	A-So	Van Buren
Miller, Robert Walter	A-F	Fayetteville
Miller, Ruth Oden	Ed-So	Van Buren
Minton, Helen Pauline	A-F	Fayetteville
Mitchell, Charles Raymond	A-F	Harrisburg
Mitchell, Fannie Elizabeth	Ag-F	Chismville
Mitchell, Lucille Melba	A-F	Harrisburg
Mitchell, Roger Hon.	A-F	Fayetteville
Mock, Mary Blanche	Ag-F	Fayetteville
Moliere, Joseph Victor	F-T	Fayetteville
Monroe, Audrey Louise	Ed-F	Waldron

Name	Course	Home Address
Moody, Terry Weaver.....	E-T.....	De Queen
Moore, Arl Van.....	A-So.....	Huntington
Moore, Berry Lee.....	Ag-F.....	El Dorado
Moore, Catherine Mary.....	Ed-F.....	N. Little Rock
Moore, Eldon.....	A-So.....	Cane Hill
Moore, Esther T.....	E-So.....	Fayetteville
Moore, John Walter.....	E-F.....	El Dorado
Morgan, Grace Alfred.....	A-So.....	Sherman, Texas
Morgan, Elizabeth Lee.....	Ed-F.....	Fort Smith
Morgan, Selma.....	A-F.....	Sherman, Texas
Morris, Hazel.....	Ed-Sr.....	Newport
Morris, Robert L.....	A-Sr.....	Fort Smith
Morrow, Myrl Mae.....	Ag-So.....	Fayetteville
Mosley, Wiley William.....	Ed-F.....	Rison
Moseley, Willard Wesley.....	A-F.....	Mena
Mount, Florence.....	A-So.....	Hot Springs
Mountcastle, Linda.....	Ed-F.....	West Fork
Mountcastle, Walter E.....	Ag-So.....	West Fork
Murphy, Elizabeth Cecilia.....	Ed-F.....	Paris
Murphy, Leo.....	A-J.....	Junction City
Murphy, Ellen Mary.....	Ed-So.....	Paris
Muse, M. Preston Jr.....	A-So.....	Junction City
Myers, William Blackwell, Jr.....	Ag-F.....	Little Rock
Natho, Carl.....	E-F.....	Gillett
Nay, George Leroy.....	A-So.....	Muskogee, Okla.
Neely, James Winston.....	Ag-F.....	Siloam Springs
Nelson, Mrs. Maude I.....	A-Sp.....	Fayetteville
Nelson, Pauline Harrison.....	Ed-F.....	Texarkana, Tex.
Nelson, Roy Edmington.....	A-F.....	Blytheville
Nelson, Scab Sam.....	ATC.....	Barber
Nettleship, Mary Frances.....	Ag-So.....	Fayetteville
Newton, Charlotte Louise.....	Ag-F.....	Sallisaw, Okla.
Newman, Ruth Virginia.....	A-Sr.....	Little Rock
Nichols, Elmer Fred.....	E-J.....	Gillett
Nichols, Evelyn Scott.....	Ed-So.....	Carlisle
Nickell, Chester.....	E-F.....	Fayetteville
Nickell, Hurrel.....	Ed-F.....	Fayetteville
Nix, Mosco Lee.....	Ed-F.....	St. Joe
Norfleet, Edmond Thomas.....	A-F.....	Forrest City
Norris, James F.....	ATC.....	Loving, Texas
Norwood, Mary Frances.....	Ed-So.....	Lockesburg
Nunn, Ann Henrietta.....	A-F.....	Pine Bluff
Nunn, Elizabeth Schober.....	Ed-F.....	Pine Bluff
Oakley, J. F.....	A-Sr.....	Fayetteville
Oakley, Richard Garland.....	Ag-F.....	Monticello
Oate, Hugh Frederick.....	A-F.....	Redfield
O'Bar, Alfred Seth.....	E-J.....	Charleston
O'Brien, James Garmon.....	Ed-So.....	Fort Smith
O'Connor John Woolf.....	Ag-So.....	Tempe, Arizona
O'Kelly, Alice Anna.....	A-J.....	Little Rock
Olin, Grace Esther.....	A-F.....	Fayetteville
Olin John Frank.....	A-J.....	Fayetteville
Oliver, Margaret Rachel.....	A-Sp.....	Fayetteville
Ort, Nancy May.....	Ed-So.....	Hot Springs
Orton, Juliet S.....	A-So.....	Ashdown
Osteen, Phyllis Louise.....	A-J.....	Fort Smith
Overman, Richard Elliott.....	E-Sp.....	Little Rock
Overton, Sue Belle.....	Ag-Sr.....	Keo
Owen Curtis Daw.....	A-Sr.....	Fayetteville
Owen Martha Dyer.....	A-F.....	Texarkana
Owens, Walter Burdett.....	A-So.....	Gillett
Owney, Virginia.....	Ed-J.....	Springdale
Paisley, Elizabeth.....	A-J.....	Fayetteville
Paisley, William Merrell.....	A-Sr.....	Fayetteville
Palmer, Aileen.....	Ag-So.....	Pine Bluff
Palmer, Virginia May.....	Ag-So.....	Verona, Pa.

Name	Course	Home Address
Parker, Clarence Scott	E-F	Booneville
Parker, Curtis Lambert	Ed-J	Winthrop
Parker, Frances	Ag-Sr	Fayetteville
Parker, John Nurn	A-J	Fort Smith
Parker, John Thomas	A-So	Little Rock
Parker, Margaret Frances	Ed-F	Hot Springs
Parker, Thelma Icell	Ed-J	Fort Smith
Parkes, Edmundson	E-Sr	Pine Bluff
Parks, Bryan	A-J	Fort Smith
Parr, Harris H.	A-F	Eudora
Parris, Ray Hezekiah	E-J	Mena
Patterson, Lucile Maurine	Ed-So	Muskogee, Okla.
Paul, Frank Burns	ATC	Bentonville
Payne, John C.	ATC	Fayetteville
Pearson, Charles Thomas	A-So	Fayetteville
Peck, Raydell	A-F	Decatur
Pendergrass, John	E-J	Fort Smith
Penix, Lex Lanier	Ed-F	Lead Hill
Penix, Mildred Marie	Ed-F	Lead Hill
Penners, William	A-F	Junction City
Perrill, Louis Crawford	Ed-F	Fayetteville
Perrill, Margaret Cunningham	Ed-F	Fayetteville
Perrin, Cecil H.	Ed-F	Pocahontas
Peter Theodore E.	E-So	Creigh
Peters, Joseph L.	ATC	Los Angeles, Calif.
Pettit, John Hawthorne	A-Sr	Little Rock
Pettigrew, George Matthew	A-J	Fort Smith
Petty, Alex.	E-F	Paris
Philbeck, Kenneth William	Ed-F	Fayetteville
Phillips, Ada	Ed-So	Fayetteville
Phillips, Bernice	Ag-J	Springdale
Phillips, Grace	Ed-So	Fayetteville
Phillips, Julia	Ag-So	Fayetteville
Phillips, Louise	Ed-F	Yellville
Phillips, Ralph Wallis	Ed-So	Wynne
Phipps, Virginia Clara	Ag-J	Fayetteville
Pickett, Elbert Jefferson	Ed-So	Fayetteville
Pickens, John Fletcher	A-F	Lockesburg
Pierce, Edward	ATC	Fayetteville
Pierce, Rosa Ann	A-So	Haskell, Okla.
Pinkerton, Doris Anita	A-Sp	Fayetteville
Pinkerton, Earle Irene	Ed-J	Russellville
Pinkerton, Ruby Joyce	Ed-F	Fayetteville
Pittman, Walker Young	A-S	Magnolia
Poe, Willie Edison	Ag-J	Waldron
Pogue, Anastasia	Ed-F	Pine Bluff
Polk, William Merrill	Ed-F	Fayetteville
Pollock, Otto Gilbert	Ag-Sp	Holdenville, Okla.
Poole, Charley Dilton	A-F	Tyroneza
Porter, Alfred Winston	A-F	Paragould
Porter, Arthur Thomas	Ed-F	Fort Smith
Porter, Harold	A-F	Fort Smith
Porter, Jeff Davis	A-F	Ozark
Porter, Jeanne	Ed-J	Hot Springs
Porter, Jimmie Grace	Ed-Sr	Hot Springs
Porterfield, Earl D.	E-Sp	Fayetteville
Posey, Boyd	A-Sr	Hot Springs
Posey, Wilson H.	A-F	Hot Springs
Powell, Myrtle Grace	Ed-F	Murfreesboro
Price, Frank Marion	ATC	Schuberg
Price, Marvinne	A-J	Fayetteville
Price, Mary Frances	A-J	Little Rock
Pryor, Hunter Wesson	A-So	Hamburg
Pryor, Mrs. Onetro	Ed-So	Morrilton
Ptak, Marie Alice	Ed-So	Fayetteville
Pugh, Bernice Opal	A-J	Fayetteville

Name	Course	Home Address
Pugh, James Wilkes.....	A-Sr.....	Fayetteville
Purdy, Russell T.....	E-Sr.....	Fordyce
Purifoy, Beulah R.....	A-So.....	Chidester
Purifoy, Eleanor.....	A-So.....	El Dorado
Purvey, Robert Lee.....	Ed-Sp.....	Carlsle
Putman, Frank.....	Ed-So.....	Fort Smith
Putman, Lee Ben.....	Ed-F.....	Fort Smith
Pye, Robert Lee.....	A-F.....	El Dorado
Qualls, William A.....	ATC.....	Luxora
Radican, Ed William.....	E-So.....	Fayetteville
Ragland, John Elliott.....	A-F.....	Pine Bluff
Raith, Mabel.....	A-J.....	Paragould
Raith, Myrtle.....	A-J.....	Paragould
Ralston, Marguerite.....	Ed-F.....	Gentry
Ramsay, Virgil H.....	A-F.....	Fayetteville
Ray, Dick.....	E-F.....	Little Rock
Ray, Quinton.....	A-F.....	North Little Rock
Ray, Ralph Edward.....	A-Sr.....	Stuttgart
Rayner, Joseph Arthur.....	Ed-F.....	North Little Rock
Rebsamen, Loyd M.....	E-J.....	Fort Smith
Reed, Edward Smith.....	E-F.....	Fort Smith
Reed, Frank Gordon, Jr.....	E-F.....	Fort Smith
Reed, Ruth.....	Ag-So.....	Springdale
Reeves, J. C., Jr.....	Ag-F.....	Pine Bluff
Renfro, Elza.....	Ed-Sr.....	Fayetteville
Renner, Joe Welton.....	A-So.....	Fayetteville
Renner, Mautice.....	A-J.....	Fayetteville
Reynolds, Averell Woodruff.....	A-F.....	Little Rock
Reynolds, Edward Taylor.....	E-So.....	Little Rock
Reynolds, Virginia Graham.....	A-J.....	Fayetteville
Rhoten, Hazel Laura.....	Ed-So.....	Fayetteville
Rhoten, Kate Virginia.....	Ed-F.....	Fayetteville
Rhoten, Nettie Rebecca.....	Ed-So.....	Fayetteville
Rice, Marshall William.....	Ed-J.....	Fayetteville
Richards, Margaret Josephine.....	A-Sr.....	Little Rock
Richardson, Farrah Dane.....	E-T.....	Center Point, Texas
Richardson, Johnie William.....	E-F.....	Warren
Richeson, Voorheis.....	A-Sp.....	Fayetteville
Kieff, Thelma Kathryn.....	A-Sr.....	Fayetteville
Riegler, Hartman.....	E-F.....	Little Rock
Riner, Blanche Louise.....	A-So.....	Fayetteville
Riner, Leo James.....	A-So.....	Fayetteville
Ring, Lisbeth Patricia.....	A-F.....	Little Rock
Ringgold, William Kennedy.....	A-F.....	Gould
Rinley, Kenneth Clay.....	E-F.....	Fayetteville
Rives, Eugenia.....	Ed-F.....	Marianna
Roath, George Abram.....	A-F.....	North Little Rock
Roberts, Dorothy Lurelia.....	Ed-F.....	Fayetteville
Robertson, Harry Dunbar.....	E-T.....	Fayetteville
Robins, Neill Rhea.....	E-T.....	Salem
Robinson, Cecil Dodson.....	A-So.....	El Dorado
Robinson, Charles Ulric.....	Ag-S.....	Centerton
Robinson, Chloera M.....	Ag-J.....	Centralia, Okla.
Robinson, William Chester.....	E-F.....	Newport
Rodgers, Clyde Dudley.....	A-So.....	DeWitt
Rodgers, Joe.....	ATC.....	Konowa, Okla.
Rogers, Harold McClellan.....	A-F.....	Bauxite
Rogers, Roger William.....	A-So.....	Fort Smith
Rogers, William Rader.....	E-F.....	Fayetteville
Rogers, Yandell.....	Ed-Sr.....	Rogers
Roney, Nannie May.....	Ed-J.....	Pine Bluff
Root, Harold Luther.....	E-Sr.....	Fayetteville
Rose, Glenn.....	E-F.....	North Little Rock
Rose, Richard Charles.....	Ag-Sp.....	Osceola
Rosencrantz, Io L., Jr.....	Ed-F.....	Stuttgart
Ross, Dewey Talbert.....	E-J.....	Fayetteville

Name	Course	Home Address
Ross, Fred George Carl.....	E-So.	Little Rock
Ross, Walter L.....	E-So.	Buffalo, Mo.
Rosson, Sammie Ira.....	E-So.	Altus
Rowe Doyle Thomas.....	A-So.	Farmington
Rowland, Fahy Leone.....	A-F.	Little Rock
Rucker, Jefferson Davis.....	E-J.	Bauxite
Rucker, William Lawton.....	E-F.	Bauxite
Ruckman, Charles.....	E-J.	Fayetteville
Rudolph, Winifred Beth.....	Ag-Sr.	Fayetteville
Runyan, Grace Marette.....	A-So.	Searcy
Runyan, Ruth Rebekah.....	A-J.	Searcy
Rupp, Charles Rufus.....	E-I.	Mulberry
Russell, Amy.....	Ed-F.	Fayetteville
Russell, James Alfred.....	E-F.	Little Rock
Rutz, Lee Johnson.....	A-F.	Fort Smith
Sadler, Winford Howe.....	Ed-So.	Paris
Sailor, Clement Sam.....	E-F.	Bigelow
Salyers, Ruth.....	Ed-J.	Fort Smith
Sammons, Floyd Wells.....	A-F.	Hot Springs
Sammons, Fred Sanders.....	A-F.	Hot Springs
Sanders, Dorothy Lee.....	Ed-J.	Springdale
Sanders, Jean Russell.....	Ed-Sr.	Pine Bluff
Sanders, Lovina.....	Ag-So.	Hope
Sanders, Robert Emmett.....	ATC.	Tulsa, Okla.
Sanderson, Gertrude.....	Ed-So.	Texarkana
Sanderson, Mildred.....	E-F.	Texarkana
Sandord, Claude Herbert, Jr.....	E-So.	Fayetteville
Sandford, Dorothy Nell.....	Ag-J.	Fayetteville
Schaaf, Hastietine.....	A-Sr.	Paragould
Schader, Fredericka Lyman.....	Ed-J.	Little Rock
Schenke, Paul E.....	E-F.	Little Rock
Schmitt, Philip William.....	A-So.	Winslow
Schmuck, Lydia Mae.....	Ag-J.	Little Rock
Schneider, Henry William.....	E-F.	Little Rock
Schultz, James Wilson.....	ATC.	Garvin, Okla.
Scoggin, Juanice.....	Ag-J.	Fort Smith
Scoggins, Raymond Edward.....	A-F.	Fouke
Scott, Brad.....	Ag-So.	Prescott
Scott, Dar.....	A-F.	Pine Bluff
Scott, Karl M.....	A-Sr.	Fayetteville
Scott, Louise.....	A-F.	Corner Stone
Scott, Nancye.....	Ed-So.	Helena
Scriber, Elaine Elizabeth.....	Ed-F.	Rogers
Seamster, Leona.....	Ed-So.	Fayetteville
Seawell, Madelyn.....	Ed-J.	Yellville
Secrest, Robert Yates.....	Ed-F.	Texarkana
Self, Hazel Fern.....	Ed-J.	Mt. Holly
Selle, Laurena Laura.....	A-So.	Fayetteville
Sensing, Ruby Mae.....	Ed-J.	Fayetteville
Sevard, William Howard.....	A-J.	Pine Bluff
Sessions, Will Anderson.....	A-J.	Helena
Sessums, Ernest Alexander.....	E-J.	Dallas, Texas
Shafer, Genevieve.....	Ag-J.	Fayetteville
Shannon, I. Wright.....	Ed-F.	Pocahontas
Sharr, Joyce Regetta.....	Ag-So.	Osceola
Sharr, Linn Lewis.....	A-J.	Fayetteville
Sharne, Mildred Thompson.....	Ed-So.	Springdale
Shaw, Bruce Holiman.....	Ag-J.	Pine Bluff
Shaw, Ernest Irwin.....	A-So.	Hot Springs
Shaw, Homer A.....	E-F.	Strong
Shaw, Joseph Howard.....	Ag-F.	Strong
Shaw, Ormand B.....	A-F.	Fort Smith
Sheffield, Edith Myrtle.....	Ed-F.	Fayetteville
Shinn, Silas Emmett.....	A-Sr.	Russellville
Shirey, Alton Jewel.....	A-F.	Camden
Shoffner, Bess Finley.....	A-F.	Newport

Name	Course	Home Address
Shoffner, Charles.....	Ag-So.....	Newport
Shoep, Harlan Duncan.....	E-Sr.....	Redfield
Shoep, Louise Frances.....	A-J.....	Little Rock
Shufford, Cecil.....	A-F.....	Fayetteville
Shuller, Benjamin Franklin.....	A-Sr.....	Ozark
Shumaker, Eleanor.....	Ed-F.....	Prescott
Sicord, Alfred McCloud.....	A-F.....	Fort Smith
Simmons, Julius Merle.....	A-F.....	Lillie, La.
Simpson, John D.....	Ed-Sr.....	Summers
Simril, Evelyn Jewell.....	Ed-F.....	Atkins
Sims, Harry Boyd.....	A-So.....	Plumerville
Singleton, Mary Elizabeth.....	Ed-I.....	Fort Smith
Singletton, Mary Margaret.....	A-F.....	Searcy
Skelton, Heien.....	Ag-Sr.....	Fort Smith
Slaughter, Floyd Eleanor.....	A-F.....	Junction City
Sloan, John.....	E-F.....	Little Rock
Slodek, Wallace.....	ATC.....	Dallas, Texas
Smith, Alice Irene.....	Ed-F.....	Fayetteville
Smith, Austin Bettis.....	E-F.....	DeQueen
Smith, Austin Cline.....	A-So.....	Cabot
Smith, Carl A.....	Ag-Sr.....	Fayetteville
Smith, Earl Eugene.....	A-F.....	Little Rock
Smith, Emma Cloud.....	A-J.....	Conway
Smith, Frank Harold.....	E-J.....	Fayetteville
Smith, Forrest Aubrey.....	Ag-So.....	Mist
Smith, Fred Alfred.....	Ag-Sr.....	Springdale
Smith, George Wilson.....	E-T.....	Canton, Okla.
Smith, Irene.....	A-Sr.....	Little Rock
Smith, John Marshall.....	E-F.....	Harrisburg
Smith, J. Preston, Jr.....	E-So.....	Fayetteville
Smith, Laura.....	A-Sp.....	Fayetteville
Smith, Lynn Luman.....	Ag-J.....	Bergman
Smith, Malcolm Roger.....	A-F.....	Little Rock
Smith, Marguerite Blanche.....	Ag-F.....	Little Rock
Smith, Marjorie Ellen.....	A-So.....	Waldron
Smith, Mary Elizabeth.....	A-So.....	Paris
Smith, Maude Lelia.....	Ag-Sr.....	Moscow
Smith, Minor Wallace.....	Ed-So.....	El Dorado
Smith, Olive Beatrice.....	Ag-I.....	Fame, Okla.
Smith, P. Armon.....	Ag-Sr.....	Hamburg
Smith, Richard Harold.....	A-F.....	Fayetteville
Smith, Robert Harvey.....	A-F.....	Hoxie
Smith, Ruie Ann.....	A-So.....	Van Buren
Snowden, Charles Roy.....	Ed-I.....	Success
Snowden, William Jerome.....	A-F.....	Wynne
Soulnt, Leona Vivian.....	Ed-F.....	Stephens
Spade, Irene Louise.....	Ag-F.....	Clovis, N. Mex.
Spears, Margarette Rowena.....	Ed-F.....	Charleston
Spence, Lillard F.....	ATC.....	Fayetteville
Spencer, George H.....	A-Sr.....	Monticello
Spencer, Katherine Margaret.....	Ag-F.....	Van Buren
Spencer, Ralph Dennis.....	E-F.....	Fayetteville
Spikes, Edna Marie.....	A-F.....	Kingston, N. Y.
Spitzberg, Theo Tony.....	E-F.....	Little Rock
Stack, Roy Melbourne.....	E-T.....	Gainesville, Texas
Stacy, Hubert Macon.....	A-F.....	Wynne
Stanford, Eloise Martha.....	Ag-F.....	Horatio
Stanford, Malcolm Foster.....	Ag-I.....	Fayetteville
Stark, Martha Leoline.....	Ag-I.....	Neosho, Mo.
Strathakis, John.....	A-F.....	N. Little Rock
Staton, William P.....	A-J.....	Wichita Falls, Texas
Stearns, Fred Obed.....	A-F.....	Hot Springs
Stearns, John T.....	A-I.....	Fayetteville
Steele, Harold R.....	E-So.....	DeQueen
Steele, Joseph Marion.....	E-F.....	Springdale
Stelle, Robert Edward.....	E-F.....	Hope

Name	Course	Home Address
Stephens, Edna Buell.....	A-So.....	Spiro, Okla
Stevenson, Eugene Edwa I.....	A-F.....	Earleton
Stevenson, James Anne.....	E-J.....	Van Buren
Steverson, Ruth Maria.....	A-F.....	North Little Rock
Stevenson, Wesley Edward I.....	A-F.....	Little Rock
Stewart Willard Wilson.....	Ed-So.....	Fayetteville
Stinson, Lawrence Watkins.....	E-F.....	Fayetteville
Storev, Frank Anderson, Jr.....	A-J.....	Malvern
Stough, Gerald D.....	E-So.....	Fort Smith
Strain, Marjorie Lucille.....	Ed-F.....	Fayetteville
Stringfield, Velmer.....	E-F.....	Rogers
Strode, Hobbs Edward.....	A-F.....	Bentonville
Stroud, John Paul.....	E-Sr.....	Oxford
Stubblefield, Frank Raymond.....	A-F.....	Fayetteville
Stubblefield, Laverne.....	A-J.....	Fayetteville
Stubblefield, Ralph E.....	Ag-J.....	Fayetteville
Stubl efield, William Hugh.....	Ag-J.....	Fayetteville
Stuckey, Otis Oliver.....	A-So.....	Sheridan
Sugg, Barney Alga.....	Ed-Sr.....	Belleville
Sullivan, Hortense.....	A-Sp.....	Whiteboro, Texas
Sullivan, Roy R.....	E-F.....	Harris
Sullivan, Ruth Virginia.....	A-F.....	Harris
Surratt, Albert Cardin.....	A-F.....	Van Buren
Sure, Ethel.....	A-Sp.....	Fayetteville
Swartz, Joseph.....	ATC.....	Fayetteville
Sweet, Fern.....	Ag-So.....	Silvan Springs
Swicord, Vivian.....	A-F.....	Walnut Ridge
Swim, Harold Earnest.....	A-F.....	Stuttgart
Swor, Harvey Hobson.....	E-T.....	Shreveport, La.
Talbert, Lois Marion.....	Ag-J.....	Little Rock
Taylor, Alfred George.....	E-F.....	Fordyce
Taylor, Gilbert B.....	E-F.....	Hot Springs
Taylor, Jake August.....	E-F.....	Forrest City
Taylor, Rosemary.....	A-F.....	Little Rock
Teeter, Glenn Lewis.....	Ag-Sr.....	Pottsville
Temple, Marye Evelyn.....	Ed-So.....	DeQueen
Terhune, Reaves Stanford.....	E-F.....	Fayetteville
Terrv, Dennie Bancroft.....	E-J.....	Tillar
Terry, Frank Alexander.....	A-F.....	Fayetteville
Terry, Marjorie.....	Ed-J.....	Fayetteville
Terry, Pauline.....	A-F.....	Fayetteville
Thibault, Henry Crawford.....	A-F.....	Scott
Thomas, Edwin Henry.....	A-F.....	Helena
Thomas, Eva Mae.....	Ag-F.....	Fayetteville
Thomas, Minnie Magdalene.....	A-Sr.....	Fayetteville
Thomas, Travis Ray.....	Ag-Sr.....	Magrolia
Thomas, Zelma Obera.....	A-So.....	Fayetteville
Thompson, Alma Lillian.....	Ed-F.....	Texarkana
Thompson, Clinton Jerome.....	A-F.....	Fayetteville
Thompson, Harry Pat.....	A-F.....	Proctor
Thompson, Mary Alice.....	Ed-F.....	Blytheville
Thompson, Oscar Paul.....	E-So.....	Blytheville
Thornberrv, Marion Meredith.....	A-Sr.....	Fayetteville
Thrasher, Marvin.....	E-J.....	Piggott
Tidball, Paul Brandon.....	A-So.....	Fayetteville
Tidball, Virginia.....	A-J.....	Fayetteville
Tilmon, Charles Erbie.....	A-F.....	Dardanelle
Tomlinson, Hortense Theresa.....	Ag-F.....	Hambluff
Toney, Mary Josephine.....	Ed-J.....	Pine Bluff
Townes, James Monroe.....	A-F.....	Little Rock
Trano, George Francis.....	A-So.....	Little Rock
Tribble, Mary Loret.....	A-F.....	Fayetteville
Trimble, Claude M.....	Ed-F.....	Blue Eye, Mo.
Trimble, Eva Lillie.....	Ed-F.....	Blue Eye, Mo.
Trimmer, James Raxter.....	ATC.....	Fayetteville
Trumbo, Cassie Juanita.....	Ag-Sp.....	Fayetteville

Name	Course	Home Address
Trumbo, Donald	A-So	Muskogee, Okla.
Tuohey, James Fred.	E-J	Little Rock
Tuohey, Rosemary	A-F	Little Rock
Turner, Marjorie	A-So	Atkins
Turner, Roy James	A-So	North Little Rock
Udes, Len	A-F	Pine Bluff
Uhl, Agnes Sue	A-Sr	Fayetteville
Uhl, Raymond Edward	E-F	Fayetteville
Umsted, Elbert Owen	Ed-Sr	Newport
Utey, Annie Marie	A-So	Paris
Vaden, Josephine Lula	A-So	Marianna
VanFrank, Emily Elizabeth	A-So	Little Rock
Vineyard, Reba Emaline	Ed-F	Greenwood
Waggoner, Charles Edward	E-T	Olvey
Wagner, Mildred Ruth	Ed-F	Fayetteville
Waits, Silas Lee	ATC	Page, Okla.
Wakefield, Burns	A-Sp	Ozark
Walker, Brad R.	Ed-F	Marble
Walker, Dorothy J.	A-J	Springdale
Walker, James Barry	E-Sr	Dardanelle
Wall, Addison Lee	A-F	Marianna
Wall, Charles Graham	A-F	Pine Bluff
Walsh, Carroll H.	A-So	Crossett
Walsh, James Claude	A-F	Hot Springs
Wantuck, Charles Myers	A-F	Fayetteville
Ward, Mrs. Ewing	Ed-F	Conway
Ward, Ewing	Ag-So	Optimus
Warner, Macge Louise	Ed-F	Midland
Warner, Thomas Duane	A-So	Jonesboro
Warram, James Heber	Ed-J	Fort Smith
Watson, Agnes	A-So	Jonesboro
Watson, James	ATC	Joplin, Mo.
Watson, Werdna Mae	A-F	McAlester, Okla.
Watwood, Eugene Boyd	E-F	Fayetteville
Way, Alene Beall	A-J	Muskogee, Okla.
Welborn, William Arnold	ATC	Frederick, Okla.
Welch, Freeman Otto	Ed-F	Cotton Plant
Welch, Maurine I.	Ag-So	Fort Smith
Wells, John Fenton	A-Sr	Little Rock
Wells, Yulia Mildred	Ag-So	El Dorado
West, Harlan Andrew	A-F	Mulberry
Wheeler, Elwyn P.	A-J	Conway
Wheeler, Roger	A-F	Muskogee
Wheeler, Wallace Clark	A-So	Strong
Whitaker, Gilbert Riley	E-Sr	Stilwell, Okla.
Whitaker, James Maxwell	A-F	Fayetteville
White, Anne Elizabeth	A-So	Texarkana
White, Elmer Bilbra	Ag-So	Stilwell, Okla.
White, Herman Samuel	A-Sp	Charleston
White, Hugh Hayes	E-T	Houston, Texas
White, Jan P.	A-Sp	Osceola
White, John Bernard	E-F	Monticello
White, Nathan Penley	E-T	Ward Hill, Mass.
White, Olga Agatha	Ed-F	Fayetteville
White, Otto	Ag-J	Fayetteville
White, Rose	A-F	Osceola
White, Ruby	Ag-So	Stilwell, Okla.
White, Tuell A.	Ag-So	Stilwell, Okla.
Whitford, Ora Catherine	Ed-F	Fayetteville
Whitmore, James Edgar	A-F	Little Rock
Wilburn, Ora Lillian	Ed-Sr	Fort Smith
Wiles, Linda Bennett	A-F	Little Rock
Wilkerson, Grady	E-F	North Little Rock
Wilkin, Charlie Robert	A-So	Devalls Bluff
Williams, Emanuel Dewey	ATC	Fayetteville
Williams, Marjorie	A-J	Fort Smith

Name	Course	Home Address
Williams, Maxville Alice.....	E-F.....	Mt. Ida
Williams, Paul X.....	A-F.....	Booneville
Williams, Roy Loyd.....	E-So.....	Bentonville
Williams, Taylor Thomas.....	Ed-Sr.....	Batesville
Williams, Wallace Audley.....	A-So.....	Elk City
Williamson, Malvin Edward.....	E-T.....	Hanson, Okla.
Wills, Joseph N.....	A-So.....	North Little Rock
Wills, C. T.....	Ed-Sp.....	McCrory
Wilms, Amanda Robinson.....	A-S.....	Newport
Wilson, Berlin Alexander.....	E-So.....	North Little Rock
Wilson, Charles Morrow.....	A-J.....	Fayetteville
Wilson, Earl Edwin.....	Ag-F.....	Fayetteville
Wilson, John Edward.....	E-F.....	Henryetta, Okla.
Wilson, Kate.....	A-So.....	Fayetteville
Wilson, Merle.....	E-F.....	Paragould
Wilson, Milored Lucille.....	Ag-So.....	Jacksonville
Wilson, Myron Edward.....	Ed-F.....	Lawton, Okla.
Wilson, Osie W.....	E-J.....	Harrison
Wilson, William Thaddeus.....	Ag-Sr.....	Fayetteville
Winburne, Betty Lee.....	A-So.....	Morrilton
Winfrey, Ralph.....	Ag-F.....	Fayetteville
Wingfield, Cecil Gibson.....	A-So.....	El Dorado
Winkleman, Charlie Dan.....	Ed-F.....	Fayetteville
Winn, Robert George.....	Ed-F.....	Winslow
Winters, Alva Burton.....	E-F.....	Traskwood
Witt, Orren Oliver.....	E-T.....	Dallas, Texas
Witty, Roy Eldo.....	A-Sr.....	Fayetteville
Wofford, Connie Watson.....	E-T.....	DeQueen
Wofford, Mrs. Gladys C.	Ed-F.....	Fayetteville
Wolf, Ford.....	A-Sr.....	Fayetteville
Womack, Carlos P.....	A-So.....	Fayetteville
Wombie, Walter Eugene.....	E-F.....	Wombie
Wommack, John Ernest.....	A-F.....	DeQueen
Wood, Alice.....	A-J.....	Tillar
Woodcock, Mary Blanche.....	Ed-F.....	Hot Springs
Wood, Maurice Freeman.....	Ed-So.....	Paragould
Woodruff, Leda Mae.....	Ed-So.....	Stilwell, Okla.
Woodruff, Martha Marie.....	Ed-F.....	Fayetteville
Woods, Dale Brown.....	A-So.....	Melbourne
Woodson, Orville McClure.....	A-F.....	Poteau, Okla.
Woodward, Thelma Margaret.....	Ed-So.....	Heavener, Okla.
Wright, Gosso W.....	A-So.....	Van Buren
Wright, Archie K.....	A-F.....	Muskogee, Okla.
Wright, Miles Edwin.....	E-F.....	Fort Smith
Wright, Olive Agnes.....	A-Sr.....	Devalls Bluff
Wright, Percy Allen.....	A-F.....	Blytheville
Wvly, Lucan Buffington.....	A-So.....	Tablequah, Okla.
Wynn, George Curtis.....	Ed-So.....	Bald Knob
Yaeger, Lewis Dozier.....	A-F.....	Tempe, Arizona
Yancev, Frances.....	A-F.....	Marianna
Yarborough, Lynn.....	Ed-So.....	Booneville
Yates, Margaret Leota.....	Ed-F.....	Fayetteville
York, Carnegie.....	Ed-F.....	Waldron
Young, Maricu Lucile.....	A-F.....	Gurdon
Youngeblood, James A.....	A-Sp.....	Little Rock
Yousee, Donovan Allen.....	E-F.....	Springdale
Zooman, Albert Benjamin.....	E-T.....	Metuchen, N. J.

SUMMER SESSION, 1924

*Graduate Students

†Registered also during the year 1924-25

- Abercrombie, Erma Cashion, Okla.
 Aalstrand, Faye Lillian Springdale
 Akin, Ada Leola Fouke
 Akin, William Porter Texarkana
 Akridge, Garth H. England
 Akridge, James Price England
 Alexander, Kate Rhea
 †Allen, Arthur Alden Bigelow
 †Allen, Esther Elizabeth Van Buren
 †Allen, William E. Mansfield
 Anderson, Elizabeth Agnes Prescott
 Anderson, Jane Monticello
 Andrews, Clyda Evelyn Okolona
 Andrews, Mrs. Ella B. T. Arkadelphia
 *Austin, Robert Louis Ozark
 †Baber, Aubrey VanCleve Siloam Springs
 †Baber, Lytle Clermont Franklin
 †Baber, Quin Morton Myron
 Backstrom, Eliza Richton, Miss.
 Baggett, Della Brinkley
 Bailey, Alean S. Ashdown
 Bailey, Ethel M. Winslow
 Bain, Mevin Herman Slaton, Tex.
 Baker, Foster Callaway Arden
 Baker, Sarah Jane Farmington
 Baldwin, Harry Little Rock
 †Banister, Talmage Lucius Mt. Hermon, La.
 †Banks, Jeff Johnson
 Barcus, Charles Wilburn Waco, Texas
 †Barham, William Calvin Prescott
 Barnett, Esther Estelle West Helena
 †Barnett, Helen Frances Fayetteville
 Barnett, Mrs. I. N. Batesville
 Barnett, Mary Louise Batesville
 †Bates, Frances C. Fayetteville
 Bates, Hazel Prairie Grove
 Bates, Hinda Prairie Grove
 †Bates, Lucile Dyer Fayetteville
 Bates, T. L. Fayetteville
 †Batier, Lois May Fayetteville
 Baugh, Mary Elizabeth Searcy
 Bea, Evelyn Siloam Springs
 Beard, Charles Earl Fort Smith
 †Beasley, Roy Basil Fayetteville
 Bebout, Mary Millard Marietta, Ohio
 Beck, Ethel Virginia Washington
 †Beck, Robert Roy Monte Ne
 Becker, Hazel Frances Fayetteville
 †Berry, Virginia Aldridge Charleston
 †Bess, John W. Fayetteville
 Bethel, Justin Waldron
 Bethel, Virgil Bates
 Bidkerstaff, Mary Flora Marianna
 †Binns, James Oscar Kellyville, Okla.
 Black, Ildra Grace Fayetteville
 †Black, Lena Bentonville
 Black, Norine Boonville
 †Blackburn, Mildred Prairie Grove
 †Blodgett, George Frank Jacksonville
 †Blosser, Mary Emma Fort Smith
 †Bogert, Julia Fayetteville
 Bolch, Eva Estella Decatur
 Bonds, Allie Bernice Russellville
 Bond, Mrs. Isabelle Waldron
 Boswell, Lynn Henry Johnson
 Bowden, R. C. Eudora
 Bowman, Claude E. Newport
 Boyd, Fred Tyronza
 †Boyd, Mary Turley Fayetteville
 Bradfield, Musa Siloam Springs
 †Brarch, Sam Houston Branch
 Brandstetter, Ward G. Southwest City, Mo.
 *†Brandstetter, Wm. G. Southwest City, Mo.
 †Branstord, Joseph R. Lonoke
 Brasfield, Annie Belle Alamo, Tenn.
 Brazil, John Edwin Bauxite
 Bridenthal, Irl G. Springdale
 †Briggsforb, David T. Forrest City
 †Bridgeforth, Otto R. Forrest City
 Brooks, Dora Alta Russellville
 †Brown, Harry K. Searcy
 †Brown, Hurley Wilbert Fayetteville
 Brown, Marillah Little Rock
 Brown, Paul G. Piggott
 Brown, Robert M. Cotton Plant
 *Brown, Thelma Fort Smith
 †Bryant, Mary Lou Fort Smith
 Bryant, Ollie Booneville
 Buchanan, Betty Velma Prairie Grove
 Buchanan, John David Denning
 Buck, Edwin Gravette
 Buckner, Tom R. Rochester, Texas
 Buell, Mrs. Etta Belle Fort Smith
 Buford, Mrs. M. T. Springdale
 Bunce, Susan Inda Mountaincrest
 Bunker, Maude E. Fayetteville
 Burgess, Roy Earl Lamar
 †Burke, Perry Fayetteville
 †Burke, Ollie David Fayetteville
 Burke, Carrie May Monticello
 Burnip, Katherine M. Fayetteville
 †Burns, Coleman D. New York, N. Y.
 Burns, Robert F. Arkadelphia
 Byrne, Mildred Louise Batesville
 Calico, Fannie Baldwin
 Calico, Cladys M. Baldwin
 Calvin, Ernest L. Pittsburg, Kans.
 Calvin, Mary Alice Little Rock
 †Cantrell, Seldon J. Blue Ridge, Tex.
 Carder, Lilhan Rita Little Rock

Cardwell Fannie Opal	Johnson	Daniel, Theima	Pine Bluff
Carnical, Cussie	Kingsland	†Darr, Mary Alice	Little Rock
Carnog, Ethel June	Charleston	Davis, Jessie May	Lowell
Carter, Lirdie Lee	Warren	Davis, Johnnie Ray	Gentry
*Carter, Deane G.	Fayetteville	Davis, Lulu	Pine Bluff
Carter, Sabine	Fayetteville	†Davis, Mozelle	Fayetteville
Cate Alta		Davis, Paul Clifford	West Fork
†Champion, Mary Amelia	Gillette	†Dearing, Fay K.	Prairie Grove
†Chaney, Chloe	Osage	Deen Margie Lola	Fayetteville
Chaplin, Lawrence A	Ark. City	Deen Vera Beatrice	Paris
Chappell Lillian Julia	Springdale	†Denson, Henry Otis	Kirkland, Tex.
Chappell Mary Marguerite		†Denson, Raymond	Kirkland, Tex.
	Springdale	†Dever, Zetta Pearl	Fayetteville
Cheatham, Andy R.	Stephens	Dial Charles M.	Holly Grove
Cheavis, Irina Mae	Tillar	Dicken, Virginia Mae	Monticello
Chiles, Zelda	Bentonville	†Dickson, Elbert	Longview, Tex.
†Chitwood, Hoyt M.	Magazine	†Dill, Arthur	Red Oak, Okla.
†Chrastek, Cyril		Dold, Cathal Wm.	Cane Hill
	Oklahoma City, Okla.	Dold, Julia Marie	Cane Hill
†Chrisler, Verna	Harrison	Dolla-hide, Ecdette	Foreman
Clark, Elele	Harris	†Donley, Arthur W.	Bradford
†Clark Frances Grace	Fayetteville	Donoha, Agnes	San Antonio, Tex.
Clark Pauline	Harrison	Doty, Hattie Mae	Rogers
†Clark Ruth Margaret	Jerry	†Dowd, Willie J.	Prescott
Clarke, Mattie C. Lake	Charles, La.	Dowell, Louise	Fayetteville
Clarke, Thelma Florence		Downing, Mrs. Maude	Weiner
	Ennis, Tex.	Draper, Effie Dora	Ashdown
†Cochran, Henry	Russellville	†Drummond, Tom M.	Dequeen
Cochran Ruby W.	Springdale	†Duncan, Treva Isabelle	Waldron
Coffelt, Omer H.	Centerton	Dunn, Fred H.	Mansfield
Coh-a, Daisy Opal	Prairie Grove	Dunn, Julius Caesar	Dalark
Coker, Leila	Monticello	Dunn, Sudie Mabel	Fayetteville
Cole, George Robert	Bauxite	†Duo as, Edmond	Fayetteville
Coleman, Alma Corrinne		Duoby, Wilma Imogene	Marianna
	Saint Paul	Dye, Glen	Excelsior Springs, Mo.
†Collie, Daniel Luther		Eaton, Saba J.	Brownwood, Texas
	Jacksonville, Tex.	†Elliott, Lloyd C.	Parks
Collier, Minnie Belle	Tupelo	Ellis, Alma L.	Fayetteville
Conner, Mildred Louise	Fayetteville	Ellis, Mrs. Corina R.	Fayetteville
†Cook, Thomas J.	McCrary	Ellis, Marion	Jonesboro
†Cook, Mrs. Thomas J.	McCrary	*Ellis Martha Belle	Fayetteville
†Counfield, Ben	Lowell	Emerson, Mildred L.	Little Rock
Cooper, John A.	Marion	†Eubanks, James E.	Garfield
†Cooper, Melvern A.		Eubanks, Loyd W.	Garfield
	North Little Rock	Evans, Georgia	Pine Bluff
†Corley, Powell Reuben	Fort Smith	Evans, Violet Beaton	Plainview
Couch, Edna May	Horatio	*Ewart, James Burns	Booneville
Couch, Mts. Grover H.	Fayetteville	†Farmer, Archie M.	Asher, Okla.
Coulter, Verda Mae		†Farrior, Dorothy	Little Rock
	Mineral Springs	Farwell, Vivian	Eureka Springs
Coventon, Bessie Mamie	Oakland	Feaster, Hattie J.	Princeton
Cowling, James J.	Richmond	†Fewkes, Alma	El Dorado
†Cox, Lydia Beatrice	Vale	†Findley, Samuel E.	Wells, Texas
Craig Clara E.	Wilmar	Fishback, Wm. Meade	Fayetteville
†Craig, Lillian Ruth	Fayetteville	*Fitch, Earl Young	Carlisle
Crain, Carmer	Ft. Worth, Tex.	†Fitch, Irma	Hindsville
Crain, Edith Blanche	Mena	Fitzgerald, John W.	Holly Grove
Cransford, Dennis D.	Sheridan	†Fleak, Mabel Harris	Fayetteville
†Crockett, Charles	Fayetteville	Fleak, Ray W.	Muskogee, Okla.
Cross, ElzaLeith	Pine Bluff	†Fleak, Roy E.	Fayetteville
*Crozier, Ruth	Fayetteville	Floy, Lenna	Bentonville
†Cult, Everett A.	Littlefield, Tex.	†Foley, Ralph T.	Fayetteville
Cunningham, Irene E.	Fayetteville	†Fontaine, Ernest H.	Clarksville
Curtis, Eva	Muskogee, Okla.	Fontaine, Rosalie Carter	Ozan
Curtis, Oscar Lee	West Fork	Ford, William M.	El Dorado
†Daniel, Mary Ida	Fayetteville	Forester, Margaret	Owen
†Daniel, Nellie Mae	Fayetteville		Dallas Texas

- †Fortune, Roland L. Searcy
Fowler, Ruth Esther Ft. Worth, Texas
Frasier, Waldo Ozark
Frazier, Dorothy J. Summers
Frost, Pauline Mathilda Huttig
Fry, Clifford Clio Berryville
Fry, Mrs. Thela Berryville
Funnell, George W. Siloam Springs
†Futrell, Byron Paragould
†Gaddy, Joseph Carroll Wilmar
*Galloway, Rowena Birmingham, Ala.
Galloway, John S. Paducah, Texas
Gardisser Edna Summers
Gardisser, Zylpha A. Summers
†Gardner, Tom S. Marietta, Okla.
Garland, Carrye Belle Des Arc
*Garlington, Arthur Roe Booneville
Garrett, Smith Kellam Ashdown
Garrett, Willie Steele Altheimer
*Garrison, D. G. St. Joe
†Garrison, Esta Viola Fayetteville
Gary, Ruth Pine Bluff
Gatus, Gertie Gay Ratcliff
†Geary, Charles Watson Henderson
Gilliam, James E. Spiro, Okla.
Gladden, Doris Bentonville
†Glenn, Lloyd Earl Indianahoma, Okla.
Glidwell, Arvin Cane Hill
†Glover, Shelburne H. Bauxite
Gore Ruby Verna Horatio
†Gore Ulys Roy Farmington
*Goza, Lod M. Arkadelphia
Grady, Ruby Verna Horatio
Graves, Mrs. O. T. Ashdown
Gray, Bertha Fayetteville
Green, Eima Stephens
Green, Willie Stephens
Greene, Lillie Frances West Lake, La.
Greer, Jessie May Horatio
†Gregory, Bryan T. Fayetteville
†Gregory, Clayborn Corsicana, Tex.
Gorgory, Ora Lincoln
Guthary, Andy McClinton Gentry
Hack Charles San Antonio, Texas
Haireton, Mrs. Maude Argentinia
†Hale, Eugene Benjamin Prescott
†Hale, Evelyn Margaret Prescott
Hale Grover C. San Antonio, Tex.
Hale Walter S. Camden
Haley, Lucile W. Blytheville
Hall, Margaret Little Rock
Haman, Mrs. Mary Ware Monticello
†Hamilton, Daisy D. Fayetteville
†Hammett, Thomas Edward Fayetteville
Hammond, Bertha Eula Durham
Hanes, Hall W. Chicago, Ill.
†Haney, Glen K. Aurora
Hansard, Harry E. Fayetteville
†Hartinson, Claude D. Monticello
Harmon, Dana Thomas
Harper, Lottie Amarillo, Texas
Robinson
*Harrington, Alice Ruth Fayetteville
Harrington, George H. Ann Arbor, Mich.
Harris, Erma Hazen
Harris, Esther Durham
†Harris, Fannie Fayetteville
†Harris, George F. Waco, Texas
Harris, Lovie Evelyn Little Rock
Harris, Olive Vivian Forrest City
†Harris, Walter W. Fayetteville
†Harrison, Grace Fayetteville
†Hathcock, Alfred H. Fayetteville
†Hathcock, Preston L. Fayetteville
Hawley, James M. Batesville
Hawn, Marcus A. Fayetteville
†Head, James DeKalb Texarkana
Hedrick, C. E. Fayetteville
Hemphill, Mrs. J. A. DeQueen
Henderson, May Fayetteville
Hendricks, Marie Sherman, Texas
†Henley, Frank Cleveland
†Henry, Audla Lou Fayetteville
Hepler, Sadiemozelle Rocky Ford, Colo.
†Herman, Olin F. Fayetteville
†Hermance, Albert H. Springdale
Hester, James Lynn Lonoke
High, Mrs. Mabel Locke England
†Hight, Jack Fayetteville
Hill, Margaret Berryville
Hill, Martha Jane Prairie Grove
Hilton, L. L. Siloam Springs
†Hogue, Noble Crump Dallas, Texas
Holcomb, Joe Silman Fayetteville
Holcomb, Mary Emily Fayetteville
†Holder, Nina Little Rock
Holleman, Felicia Searcy
*Holloway, Keith L. Fayetteville
Holt, John Larkin Harrison
Hood, Mary Emma Widener
†Honea, Ben W. Lonoke
†Hooten, George C. Checotah, Okla.
†Horton, Dennis Walter Forrest City
Hotchkiss, Anna Louise Hot Springs
Houser, Idelle Rebecca Paris
Houser, Inez Beatrice Paris
†Howard, Isaac W. Provo
†Howard, Jack H. Mt. Calm
Howard, Nettie Caroline Gentry
Howard, Virgie Marie Mineral Springs
Huff, Mrs. Lillian Fayetteville
Hughes, Verda Fayetteville
Hughes, William H. Fayetteville
Hughes, Agnes Oneal
Hughes, Mary Grace Jonesboro
Hultsman, Juanita Fort Smith
Humason, Guerdon W. Dallas, Texas
†Hunt, Herman H. Clondike, Texas
†Hutcheson, James Edwin Magnolia
†Hutcheson, Maye Virginia Magnolia
Hyatt, Margaret M. Monticello
Irby, Patricia El Dorado

Ivey, Nellie Mozelle	Springdale	Lucas, Mrs. Ida	Stilwell, Okla.
Ivy, Thomas Ross	Fayetteville	Ludwick, Eva L.	Okmulgee, Okla.
Jackman, Luke B.	Ozark	†Lund, Carl F.	Fayetteville
Jackson, Burnice	Cane Hill	Lyle, Mrs. Joe B.	Cordell, Okla.
Jackson, Nita L.	Cane Hill	†Lyons, Mary Lee	Strong
†James, Auldry R.	Poteau, Okla.	Magers, Raymond G.	
James, Hazel Alice	Little Rock		Murchison, Texas
Janett, Ethel R.	Fayetteville	Mailer, James	Fort Smith
†Jobe, Virgil B.	Fayetteville	Mann, Eloise	Princeton
†Johnson, Joyce W.	Charleston	*Mann, Lewis P.	Searcy
Johnson, Kirtley	Whitener	Mannon, Margaret	Fayetteville
Johnson, Myrtle	Decatur	†Martin, Edgar T.	Gentry
Johnston, Bernice I.	Batesville	Martin, Georgia Davis	Newport
Jones, Charles	Brookland	†Martin, Homer T.	Everton
Jones, C. int	Elkins	Martin, Kate C.	Little Rock
†Jones, Dorothy M.	Fayetteville	Martin, Lillian	Danville
†Jones, Gordy M.	Junction City	Martin, Lulu Hazel	Fayetteville
Jones, Horace C.	Batesville	Mason, Erastus G.	Whitener
†Jones, Hugh T.	Rogers	Mason, Flora Pauline	
Jordan, Edna G.	Fayetteville		Westville, Okla.
Jordan, Kara	Fayetteville	*Mason, Ralph Hedges	Fayetteville
Karnes, Bernice	West Fork	Massev, Walter B.	Warren
†Karnes, Oscar O.	Pitkin	Maxwell, Clifford	Spiro, Okla.
Karr, David L.	Wister, Okla.	Maxwell, Louise	Siloam Springs
†Keesee, Charles W.	Tyler, Texas	Mav, Grace Hazel	Cincinnati
Kelly, Mary M.	Kansas City, Mo.	Maves, Fern	Springdale
†Kellogg, Ruth	Springdale	†Maves, Hazel Edna	Springdale
Kennedy, Dale Edgar	Waldo	Maves, Myrtle A.	Maniton, Okla.
Kennedy, Harvey Wm.	Waldo	†Maves, Ruby E.	Springdale
Kexes, Fila	Board Camp	Mavo, Margaret S.	Little Rock
†Kev, Hugh B.	Fayetteville	Mays, Alma	Fayetteville
Kight, Mrs. George	DeQueen	Meacham, Elmer Allen	Cave City
*Kimbrough, Felix A.	Fayetteville	Melton, Marvin W.	Yellville
Lack, Lillian L.	Leslie	Meyer, Carrie	Mabelvale
Lamb, Marion	Little Rock	†Mixes, Richard C.	Magazine
Lane, Pearl L.	Van Buren	†Miller, Adabelle	Fayetteville
†Lane, Wm L.	Bridgeport, Texas	Miller, Ruth B.	Baldwin
†Lavendusky, Albert		†Miller, Ruth Oden	Van Buren
	E. Bernard, Tex.	Mills, Bess L.	Morrilton
Leach, Mary Margie	Gentry	Mill, Vernon S.	Stephens
Leach, Robert L.	Gentry	Milsap, Winnie J.	Greenland
Lee, Eva	Pea Ridge	Mitchell, Mrs. J. S.	Brinkley
*Lefors, Wm McKinley	Gentry	*Moffatt, Mrs. R. O.	Fayetteville
†Letch, Dempsey C.	Fayetteville	†Moody, Terry Weaver	DeQueen
Lewis, Ethel	Mt. Holly	Moore, George Hugh	Subhor Rock
Lewis, Mrs. Lloyd	Ashdown	Moore, George W.	Bagwell, Texas
†Liebolt, Frederick L.	Fayetteville	Moore, Lenna L.	Springdale
†Lighton, Peggy Sue	Fayetteville	Moore, Leone	Fayetteville
*Lile, John Gardner	Arkadelphia	Moore, Lollie Judson	Bagwell, Tex.
Lincoln, Lydia	Van Buren	Moore, Nannie Maude	Fayetteville
Lindley, Myrtle Vera	Jonesboro	Moore, Nannie May	Fayetteville
†Linthicum, John Charles		Moore, Noma A.	Leslie
	Little Rock	Moore, Norman F.	Blytheville
†Linton, Thomas M.	Hot, Okla.	Moore, O M	Siloam Springs
Little, Hattie Aileen	Pine Bluff	*Moran, Fred	Pea Ridge
Little, Jewell	Abbott	Morelock, Mabel M.	Van Buren
Loden, Joe Harvey	Fayetteville	Morgensen, Glenn W.	
†Loden, John Warner	Fort Smith		Snyder, Okla.
Loden, Tom Henry	Fayetteville	Morris, Etta	Fort Smith
Lofland, Gussie	Bluffton	†Morris, Robert L.	Fort Smith
†Long, Jewel	Fayetteville	Mosley, Sallie L.	Ratcliff
Lore, Lucy	Little Rock	Moss, Mrs. J. W.	
Loretz, Faye	Des Arc		San Antonio, Texas
Love, Janie	Hughes	*Mott, Albert	Sarcoxic, Mo.
Low, Mrs. M. I.	Springdale	Mott, Mrs. Albert	Sarcoxic, Mo.
Lowe, Marshall J.	Springdale	Mowery, Carrie E.	Piggott
†Lowery, John	New Blaine	McAllister, Ha	Fayetteville

McCain, Lellie	Pine Bluff	Poor, Marjorie	Eureka Springs
McCall, M. L.	Eureka Springs	†Porter, Jimmie G.	Hot Springs
†McCarroll, Otto G.		Portis, Kathleen	Lepanto
	North Little Rock	Pound, Nellie B.	Danville
†McCatherine, Thelma	Fayetteville	Pratt, John L.	Malvern
McColluch, Carrick L.	Lincoln	†Price, Frank	Schaberg
McCreight, Mrs. Louise	Brinkley	†Price, Marvinne	Fayetteville
McCuiston, Mrs. Lucy P.		Priddy, Katherine	Russellville
	Lincoln	Proctor, Blanche	Whitener
McDonald, Louetta H.	Elm Springs	†Pryor, Lonnie Earnest	Morrilton
McGee, Borden M.	Handley, Texas	†Ptak, Marie Alice	Fayetteville
†McGill, Josephine	Chidester	†Pugn, Bernice Opal	Fayetteville
McGlaithery, Sallie	Odessa	†Pugh, James Wilkes	Fayetteville
McGuire, John C.	Piggott	†Pullov, Beulah Ray	Chidester
McKinney, Presley I.	Warren	Pyatte, Howard M.	Cane Hill
McKissack, Gordon R.		Pyle, Hcyte R.	Bruno
	James, Texas	†Oualls William A.	Luxora
†McKnight, R. B.	Parkin	Raines, Mrs. J. M.	Wilmar
McNair, Pauline	Fayetteville	Ramsev, Joseph L.	Bauxite
†McNutt, James Luther	Arkadelphia	Rayburn, Otto E.	Kingston
McWorkman, Marie M.	Gentry	Reed, Ollie M.	Springdale
Nash Augna May	Huttig	Reid, Charles E.	Delight
Neal, Mrs. George U.	Clarksville	Reid, Joe Winston	Delight
†Nelson, Seab	Barber	Reid, Lillian Della	Leola
Newsom, Pearl A.	Louann	Reinhardt, Mary Conway	
†Nichols, Elmer Fred	Gillette		Des Arc
Nichols, Earl Greer	Ozark	Reinoehl, Violet Mae	Fayetteville
Nicholson, James W.	Cane Hill	Rhodes, Kathleen May	
Nott, James Cecil	Fayetteville		Green Forrest
Nowlin, Mrs. Rubye P.	Yellville	Rhodes, Vera E.	Wilmar
Nuzent, Marionette	Russellville	†Rhoten, Hazel Laura	Fayetteville
†O'Kelly, Arlie A.	Little Rock	†Rhoten, Nettie Rebecca	Fayetteville
Oliver, Ruth Frances	Corning	†Rice, Marshall W.	Fayetteville
Opry, Jessie L.	Fayetteville	Riddell, Maye Belle	Dallas, Texas
Opry, Theima	Fayetteville	†Rieft, Thelma K.	Fayetteville
Orr, Nancy May	Hot Springs	Ringgold, Ursaline	Ashdown
Osburn, Elijah E.	Fayetteville	†Robins, Neill Rhea	Salem
Osburn, Irvin F.	Paris, Texas	Robinson, Katie V.	West Fork
†Ove-ton, Sue Belle	Keo	Robken, Louis Parker	Dardanelle
†Ownby, Virginia	Springdale	Rodgers, Carlin Lanier	Gravette
†Paisley, William M.	Fayetteville	Rodgers, Dorothy A.	Thornton
†Paris, Ray H.	Mena	†Rodgers, Joe K.	Konowa, Okla.
Parker, Emma	Fayetteville	Rogers, Clementine	Prairie Grove
Parker, Robert E.	Garland	Rosenkrantz, Ilma O.	Stuttgart
Parslev, Mary Leola	Rogers	†Ross, Dewey T.	Fayetteville
Paslaw, Helen	Forrest City	Rothrock, Mrs. Zelma	Springdale
Patterson, Pearl	Gentry	Rowland, Ben Dudley	Hot Springs
Pattillo, Jean C.	Nash, Texas	Rowley, Lucy O.	Redel
Patton Ora Sue	Clinton	†Rucker, Jefferson D.	Bauxite
†Paul, Frank Burns	Bentonville	Rundel, Helen Christine	
Perkins, Guin	Ratcliff		Fayetteville
Perkins, Roscoe	Ratcliff	*Russell Dilla Belle	Fayetteville
†Perrill, Margaret C.	Fayetteville	Russel, Mettie Janette	Fayetteville
Perry, Winnie A.	Richmond	Rutherford Gladys	Fayetteville
†Peters, Joseph L.		Ryan, Marie	St. Louis, Mo.
	Los Angeles, Calif.	Sadler, Mary Lee	Harris
†Pettigrew, George M.	Fort Smith	Salzer, Robert	Florence, Tex.
†Phillips, Julia	Fayetteville	Samm, ns, Vernon E.	Hot Springs
†Phillips, Louise	Yellville	Samuel, Monroe R.	Emmett
Pick, I., Allie D.	Fayetteville	†Sanquers, Robert E.	Tulsa, Okla.
*Pickens, Thelma	Batesville	†Sanford, Dorothy Nell	Fayetteville
†Pierce, Edward C.	Fayetteville	Sawyer, Helen	Pine Bluff
Pitts, Albert	Heavener, Okla.	†Schaaf, Hazeltime	Paragould
Plank, Nellie May	Decatur	*Schilling George S.	Fayetteville
†Polk, Merrill	Fayetteville	Schobor, Elizabeth	Pine Bluff
†Pollack Otto G.	Holdenville, Okla.	Schultz, James W.	Garwin, Okla.
Poor, Clara	Eureka Springs	Schweer, Georgia	Hot Springs

- Scott, William Jeff Franklin
 Seals, Grover C. Olvey
 Sealy, Mrs. Emma L. Fayetteville
 †Seamster, Leona Fayetteville
 Seay, Bula Clarice Siloam Springs
 Sellers, Lois Tahlequah, Okla.
 †Sensing, Ruby Mae Fayetteville
 †Shafer, Genevieve Fayetteville
 †Sharr, Joyce Regetta Osceola
 †Sessions, Ernest A. Dallas, Texas
 Sharrock, Clyde R. Prairie Grove
 Sharrock, Roy D. Prairie Grove
 Shelley, Sebastian Midland
 *Shelton, Edgar G. Fayetteville
 Sheppard, Grace L. Gentry
 Sherman, Henry E. Pierce City, Mo.
 †Shope, Hailan D. Redfield
 Shull, Othelma Horatio
 Shutt, Virginia W. Pryor, Okla.
 Sigmon, Ella Mae Poteau, Okla.
 †Simpson, John D. Summers
 *Slaughter, Vera V. Springdale
 †Slodek, Wallace Dallas, Texas
 Smith, Mrs. Amanda B. Mena
 Smith, Annie Summers
 †Smith, Austin Cline Cabot
 †Smith, Carl A. Fayetteville
 Smith, Ethel Van Buren
 Smith, Fannie Berryville
 Smith, Frank C. Fayetteville
 †Smith, George W. Canton, Okla.
 Smith, Helen Margaret Fayetteville
 Smith, Hollis L. Marked Tree
 †Smith, Irene Little Rock
 *Smith, Isabelle K. Fayetteville
 Smith, Mrs. J. H. Lowell
 Smith, L. H. Lowell
 Smith, Jewell J. Washington
 Smith, Mrs. Mable H. Coneho, Okla.
 †Smith, Marjorie Ellen Waldron
 †Smith, Maude Lelia Moscow
 †Smith, P. Armon Hamburg
 Sowell, Mattie Ruth Searcy
 †Spears, M. Rowena Charleston
 †Spears, Ola Jacksonboro, Tex.
 †Spence, Lillard F. Fayetteville
 Sprague, Bernice L. Leachville
 †Stacks, Roy Melbourne Gainesville, Texas
 Stafford, Cessna M. Springdale
 Stebbins, Leona C. Springdale
 Stepp, Clara L. Paragould
 Stevenson, Albert E. North Little Rock
 Stone, Duncan Brodie Dallas, Tex.
 Stone, Martha K. Waldron
 Stroud, Gertrude Tiller
 †Stubblefield, Laverne Fayetteville
 -Suggs, Voisy Gay Ratcliff
 Sullivan, Helen Little Rock
 Sullivan, J. E. Muskogee, Okla.
 †Swartz, Joseph Fayetteville
 Swift, M. M. Charleston
 †Swor, Harvey Hobson Shreveport, La.
 Sword, Anna Louise Harris
 †Talbert, Lois Little Rock
 Taylor, Jewell Mae Gentry
 Taylor, John Wesley Shelbyville
 Taylor, Lillian Blevins
 Temple, Barbara Helen Rogers
 Terhune, Mrs. Alice E. Cave Springs
 Thimiah, Mae C. DeQueen
 Thomas, Carma Athleen Fayetteville
 †Thomas, Zelma Obara Fayetteville
 Thomason, Esther A. Mineral Springs
 Thompson, Elizabeth L. Muskogee, Okla.
 †Thompson, Harry Pat Proctor
 †Thrasher, Marvin J. Piggott
 Tibbits, Frances Louise Camden
 Travis, William H. Glenwood
 *Trimble, Otis Carroll Enon
 †Trimier, James B. Fayetteville
 Tucker, Ema Veta Gravette
 Tuller, Allen Vernon Little Rock
 Tunnell, Dean Parks, Cincinnati
 Tunnell, Kate Cincinnati
 Tunstill, Ethyle Ruth Fayetteville
 Turman, Mary Frances Okmulgee, Okla.
 Turman, Mildred Lee Okmulgee, Okla.
 *Turner, Adlai S. Arkadelphia
 Tyer, Mrs. W. B. Duncan, Okla.
 Tyson, Jessie Mae Stephens
 Tyson, L. Ligon Buena Vista
 Urquhart, Jeffe May Jefferson, Texas
 Urquhart, Mattie R. Jefferson, Texas
 *Vance, Rupert B. Morrilton
 VanNote, Martha Texarkana, Tex.
 Vernon, Rhoda Elm Springs
 Vick, John Marion Fayetteville
 Vinson, Robert E. Colt
 Vinson, Mrs. Robert E. Colt
 Wade, Warren B. College Park, Ga.
 †Waggoner, Charles E. Olvey
 †Waits, Silas L. Poge, Okla.
 Walden, Georgia L. Fayetteville
 Walker, Carmen Pea Ridge
 Walker, Marguerite J. Fayetteville
 Ware, George W. Levesque
 Warmack, Gertrude Fort Smith
 Washington, Ruby Westville, Okla.
 Watson, Dora Ella Ratcliff
 †Watson, James Joplin, Mo.
 Watson, Mamie Lorene Humphrey
 Watson, Ora Viola Humphrey
 *Webb, Ralph Fayetteville
 *Webb, Ray Fayetteville
 Webster, Dellie Elm Springs
 Weeks, Irene Ratcliff
 †Welborn, William A. Frederick, Okla.
 Weniger, Leona Little Rock
 West, Margaret I. Dover
 Whaley, Mary Allene McNeil

†Wheelis, Wallace Clark	Strong	Wilson, Mary S.	Moro
†Whitaker, Gilbert R.	Stilwell, Okla.	†Wilson, Wm. T.	Fayetteville
*White, Edwin Dean	Fayetteville	†Winburne, Betty Lee	Morrilton
†White, Elmer B.	Stilwell, Okla.	†Witt, Orren O.	Dallas, Texas
†White, Herman S.	Charleston	†Wofford, Cernie	DeQueen
†White, Hugh H.	Houston, Texas	†Wofford, Mrs. Gladys	DeQueen
†White, Nathan P.	Ward Hill, Mass.	Wolfe, Rose C.	Little Rock
White, Orra Maud	Springdale	Wood, Mary Velma	Magazine
Whitmore, Allie Mae	Nashville	Wood, Nora Lee	Arkadelphia
Whittaker, Minnie L.	Monticello	Wools, Corinne	Batesville
Whitten, Martha V.		Wright, Faye	Berryville
	Batesville, Miss.	Wright, Mary E.	Little Rock
†Wilburn, Ora L.	Fort Smith	Wright, Mary	Pine Bluff
†Williams, Emanuel	Fayetteville	†Wright, Olive A.	DeValls Bluff
Williams, Lola	Fayetteville	Wyle, Mary Susan	Carthage
†Williamson, Melvin	Hanson, Okla.	Young, Bernice Irene	Springdale
Wilson, Evelyn L.	Russellville	Young, Hazel Lucille	Ashdown
Wilson, Floy	Atkins	†Zooman, Albert B.	Metuchen, N. J.

UNIVERSITY HIGH SCHOOL, 1924-25

*Entered University at beginning of Winter Term

Appleby, Marion	Fayetteville	Earle, Mary	Fayetteville
Appleby, Mildred	Fayetteville	Ellis, Frank	Fayetteville
Arnold, Katherine	Fayetteville	Eoff, Howard	Fayetteville
Ash, Helena	Fayetteville	Eubanks, Faye	Garfield
*Ash, Henry	Plainview	Eubanks, Ollie	Garfield
Askew, Billy	Fayetteville	Ferguson, Roscoe	Strickler
Austin, Lee	Fayetteville	Fietz, Wilma	Fayetteville
Baber, Erin	Myron	Fishback, Herbert	Fayetteville
Bates, Charles	Fayetteville	Fracker, Elizabeth	Fayetteville
Bates, Clinton	Fayetteville	Frizzo, Gabriella	Springdale
Bates, Dorothy	Fayetteville	Fugitt, Yvonne	Fayetteville
Beaman, Glen	Garfield	Fulbright, Helen	Fayetteville
*Beauchamp, Raymond	Fayetteville	Fulbright, Roberta	Fayetteville
Berry, Mildred	Wesley	Gatlin, Ruth	Fayetteville
Blanshard, John	Fayetteville	Gore, Bonnie	Farmington
Boyd, Una Thomapson	Fayetteville	Gore, Vera	Farmington
*Bradley, J. Roy	Wesson	Gregson, Edith	Fayetteville
Brewster, Eugene	Cane Hill	Gregson, Lillian	Fayetteville
*Brown, Herbert	Fayetteville	Guisinger, Constance	Fayetteville
Burnip, Beryl	Fayetteville	Hale, Arthur	Fayetteville
Burnip, Katherine	Fayetteville	Hale, Harrison, Jr.	Fayetteville
Butler, Cladys	Fayetteville	Harrell, Edna	Fayetteville
Caldwell, Edith	Fayetteville	Harrell, John	Fayetteville
Carson, Orbra	Fayetteville	Harris, Elizabeth	Fayetteville
Carter, Aubrey Mae	Fayetteville	Harris, Victor	Fayetteville
Carter, Aulton	Fayetteville	Hathcock, Martha	Fayetteville
Carter, Roscoe	Fayetteville	Hawn, Marcus	Fayetteville
Caudle, Fred	Russellville	Hays, Lloyd	Fayetteville
Caudle, Marguerite	Fayetteville	Hays, Rudy	Fayetteville
Champion, Merle	Fayetteville	Higginbotham, Mary	Mountain Home
Clark, Emele	Harris		
Clark, Theima	Fayetteville	Hipolite, Charles	De Valls Bluff
Cox, Virginia	Cane Hill	Horne, Humphreys	Helena
Craig, Edwin	Fayetteville	House, Amos	Johnson
Craig, James	Fayetteville	Jackson, Frances	Fayetteville
*Cravens, John P.	Magazine	Jackson, Pearle	Fayetteville
Crawford, Charles	Pettigrew	Jackson, Ruth	Fayetteville
Cunningham, Myra	Fayetteville	Jestice, Norine	Fayetteville
Davidson, Nicholas	Fayetteville	Johnston, Ellie	Fayetteville
Davis, Raymond	Fayetteville	Johnston, Omah	Fayetteville
Dowell, Allen	Fayetteville	Kane, James	Fayetteville
Dowell, Ruth	Fayetteville	Kev, Thelma	Fayetteville
Drake, Vera	Fayetteville	Late, Frank	Johnson

Lemley, Beatrice	Fayetteville	Ross, Jack	Greenland
Lewis, Angus	McCrory	Ruddick, Carman	Garfield
Lewis, Murray	Fayetteville	Ruddick, Jewell	Garfield
Lichlyter, Hester	Johnson	Ruddick, Ruth	Fayetteville
Lichlyter, Louis	Johnson	Seamster, Bernal	Fayetteville
Loden, Joe	Fayetteville	Sharp, Lamar	Fayetteville
London, Bob	Fayetteville	Shearer, Harris	McCrory
Mayes, Helen	Fayetteville	Shipley, Harold	Fayetteville
Mears, Chester	Tahlequah, Okla.	Snibley, Nora	Fayetteville
Miles, Sam	Fayetteville	Smith, Chester	Crystal Springs
Miliszap, Audia	Fayetteville	Smith, Frank	Fayetteville
Millsap, Paul	Fayetteville	Smith, Helen	Fayetteville
Morrow, Richard	Fayetteville	Stanford, Alice	Fayetteville
Mountcastle, Frances	West Fork	Stanford, Nellie	Fayetteville
Mulford, Sara	Fayetteville	Stearns, Byron	Fayetteville
McAllister, Donald	Fayetteville	Stone, Duncan	Fayetteville
McClinton, Charles	Fayetteville	Swink, Joe	Fayetteville
McConnell, Ella	Fayetteville	Taylor, Maude	Fayetteville
McDonald, Donald		Terry, Ethelyn	Fayetteville
	Junction City	Thomas, Byron	Fayetteville
McNair, Fauline	Fayetteville	Thompson, Jack	Fayetteville
Nelson, Christine	Fayetteville	Thompson, Willie	Springdale
Oglesby, Anne	Prairie Grove	Tuller, Vernon	Little Rock
Oglesby, Ira, Jr.	Prairie Grove	Turner, O. B.	West Fork
Oliver, Reid	Fayetteville	Tweedie, Sina	Fayetteville
Paul, Jack	Fayetteville	Vail, Mildred	Harris
Peel, Mary	Fayetteville	Walker, Marguerite	Fayetteville
Peel, Zillah	Fayetteville	Watson, Cline	Fayetteville
Penix, Mildred	Lead Hill	Webb, Milton	Fayetteville
Pettit, Ruby	Fayetteville	Webster, Ruth	Fayetteville
Phillips, Itubert	Fayetteville	Weir, Earline	Fayetteville
Phillips, Louise	Yellville	Weir, Eutha	Fayetteville
Phillips, Marietta	Fayetteville	White, Ruth	Charleston
Phillips, Ollie	Fayetteville	Whitty, Margaret	Fayetteville
Pinkerton, Ralph	Fayetteville	Wilms, Mildred	Newport
Platt, Emma	Fayetteville	Wilson, Oscar	Harris
Poole, Earle	Tyrone	Winchester, Roberta	Fayetteville
Radican, Lynn	Fayetteville	Winfrey, Donald	Fayetteville
Rein, Violet	Fayetteville	Zuerker, Barbara	Fayetteville
Richardson, Ada	Wheeler	Zuerker, Elizabeth	Fayetteville

SUMMARY

1924-25

College of Arts and Sciences

	Men	Women	Totals
Graduates	8	3	11
Seniors	33	26	59
Juniors	38	40	78
Sophomores	109	57	166
Freshmen	202	77	279
Specials	11	10	21

614

College of Education

Graduates	5	7	12
Seniors	17	21	38
Juniors	14	37	51
Sophomores	35	73	108
Freshmen	66	84	150
Specials	2	7	9

368

College of Engineering

Seniors	21		
Juniors	37		
Sophomores	50		
Freshmen	130		
Specials	3		
Short Courses	40		

281

College of Agriculture

Graduates	4	0	4
Seniors	21	14	35
Juniors	16	24	40
Sophomores	18	34	52
Freshmen	34	24	58
Specials	5	1	6
Short Courses	45		45

240

Law Department

Total	36		36
Duplicates			1539
			67

Net Total, Fall, Winter, and Spring Terms

University High School	58	86	144
Summer School 1924	338	430	768
Special Short Course	152	74	226
Club boys' and girls' Short Course			200
Extension Classes	63	573	636
Correspondence Courses			841
Farmers' Week			1327

Total			5645
Duplicates			242

Net Total

5403

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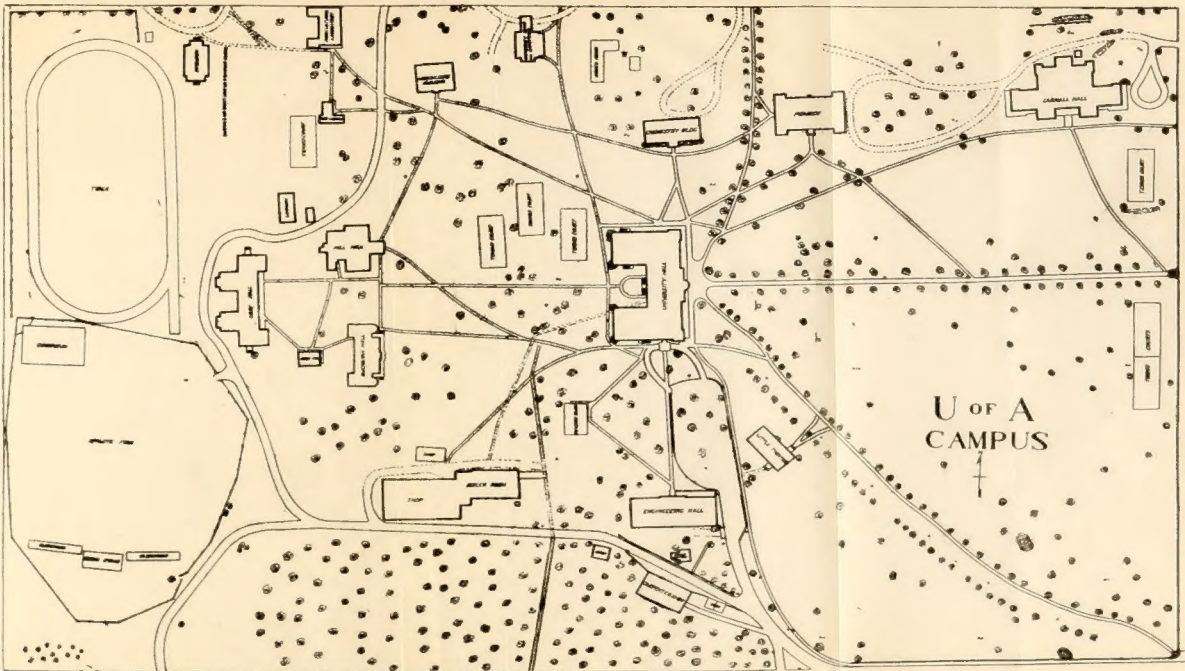
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D I C K S O N S T R E E T

